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DIE
R A D I O L A R I E N.
(RHIZOPODA RADIARIA.)

EINE MONOGRAPHIE

VON

DR. ERNST HAECKEL,

AUSSERORDENTLICHEM PROFESSOR DER ZOOLOGIE UND DIRECTOR DES ZOOLOGISCHEN MUSEUMS AN DER UNIVERSITÄT JENA.

(1, [2.])

ATLAS

VON

FÜNF UND DREISSIG KUPFERTAFELN.

B E R L I N.
DRUCK UND VERLAG VON GEORG REIMER.
1862.

Wb) 66/1680

RADIIOLARIEN.

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Systematische Uebersicht

der in dem Atlas abgebildeten Radiolarien-Arten,
nach den Familien und Gattungen geordnet.

Anm. Die römischen Ziffern hinter den Arten-Namen zeigen die Tafel, die arabischen Ziffern die Figur an.

Erste Unterordnung der Radiolarien: MONOZOA (MONOCYTTARIA).

Erste Reihe der Monozoen: Ectolithia.

Erste Familie: Collida.

Erste Unterfamilie der Colliden: Thalassicollida.

I. Genus. Thalassicolla.

1. Thalassicolla pelagica I, 1—5.
2. T. nucleata III, 1—5.
3. T. zancea II, 3.

II. Genus. Thalassolampe.

4. Thalassolampe margarodes II, 4, 5.

Zweite Unterfamilie der Colliden: Thalassosphaerida.

III. Genus. Physematium.

5. Physematium Muelleri III, 6—9.

IV. Genus. Thalassosphaera.

6. Thalassosphaera bifurca XII, 1.

V. Genus. Thalassoplaneta.

7. Thalassoplaneta cavispicula III, 10—13.

Dritte Unterfamilie der Colliden: Aulacanthida.

VI. Genus. Aulacantha.

8. Aulacantha scolymantha II, 1, 2; IV, 1—5.

Zweite Familie: Acanthodesmida.

VII. Genus. Zygostephanus.

9. Zygostephanus Muelleri XII, 2.

VIII. Genus. Prismatium.

10. Prismatium tripleurum IV, 6.

IX. Genus. Dictyocha.

11. Dictyocha messanensis XII, 3—6.

Dritte Familie: Cyrtida.

Erste Unterfamilie der Cyrtiden: Monocyrtida.

X. Genus. Litharachnium.

12. Litharachnium tentorium IV, 7—10.

XI. Genus. Cyrtocalpis.

13. Cyrtocalpis obliqua V, 3—11.

14. C. amphora V, 2.

XII. Genus. Carpocanium.

15. Carpocanium diadema V, 1.

Zweite Unterfamilie der Cyrtiden: Zygocyrtida.

XIII. Genus. Petalospyris.

16. Petalospyris arachnoides XII, 7.

Dritte Unterfamilie der Cyrtiden: Dicyrtida.

XIV. Genus. Lithomelissa.

17. Lithomelissa thoracites VI, 2—8.

XV. Genus. Arachnocorys.

18. Arachnocorys circumtexta VI, 9—11.

19. A. umbellifera VI, 12.

XVI. Genus. Dictyophimus.

20. Dictyophimus tripus VI, 1.

XVII. Genus. Eucecryphalus.

21. Eucecryphalus Gegenbauri V, 12—15.

22. E. Schultzei V, 16—19.

Vierte Unterfamilie der Cyrtiden: Stichocyrtida.

XVIII. Genus. Eucyrtidium.

23. Eucyrtidium cranoides VII, 1—3.

24. E. carinatum VII, 4—7.

25. E. anomalum VII, 11—13.

26. E. galea VII, 8—10.

27. E. lagena IV, 11.

XIX. Genus. Dictyoceras.

28. Dictyoceras Virchowii VIII, 1—5.

XX. Genus. Dictyopodium.

29. Dictyopodium trilobum VIII, 6—10.

Fünfte Unterfamilie der Cyrtiden: Polycyrtida.

XXI. Genus. Spyridobotrys.

30. Spyridobotrys trinacria XII, 8, 9.

XXII. Genus. Botryocampe.

31. Botryocampe hexathalamia XII, 10.

Vierte Familie: Ethmosphaerida.

Erste Unterfamilie der Ethmosphaeriden: Heliosphaerida.

XXIII. Genus. Cyrtidosphaera.

32. Cyrtidosphaera reticulata XI, 2.

XXIV. Genus. Ethmosphaera.

33. Ethmosphaera siphonophora XI, 1.

XXV. Genus. Heliosphaera.

34. Heliosphaera inermis IX, 1.

35. H. tenuissima IX, 2.

36. H. actinota IX, 3.

37. H. echinoides IX, 4.

38. H. elegans IX, 5.

Zweite Unterfamilie der Ethmosphaeriden: Arachnosphaerida.

XXVI. Genus. Diplosphaera.

39. Diplosphaera gracilis X, 1.

XXVII. Genus. Arachnosphaera.

40. Arachnosphaera oligacantha X, 2; XI, 3.

41. A. myriacantha X, 3; XI, 4.

Fünfte Familie: Aulosphaerida.

XXVIII. Genus. Aulosphaera.

42. Aulosphaera trigonopa X, 4.

43. A. elegantissima X, 5; XI, 5, 6.

Zweite Reihe der Monozoen: Entolithia.

Sechste Familie: Coelodendrida.

XXIX. Genus. Coelodendrum.

44. Coelodendrum ramosissimum XIII, 1—4.

45. C. gracillimum XXXII, 1—3.

Siebente Familie: Cladococcida.

XXX. Genus. Rhaphidococcus.

46. Rhaphidococcus simplex XIII, 5, 6.

47. R. acifer XIV, 1.

XXXI. Genus. Cladococcus.

48. Cladococcus dentatus XIII, 10.

49. C. spinifer XIII, 9.

50. C. bifurcus XIII, 7, 8.

51. C. viminalis XIV, 2, 3.

52. C. cervicornis XIV, 4—6.

Achte Familie: Acanthometrida.

Erste Unterfamilie der Acanthometriden: Acanthosaurida.

XXXII. Genus. Acanthometra.

53. Acanthometra elastica XV, 1; XVIII, 1.

54. A. bulbosa XV, 2; XVIII, 2.

55. A. dolichoscia XVIII, 3a, 3b.

56. A. compressa XVIII, 4a, 4b.

57. A. tetracopa XVIII, 5.

58. A. Muelleri XV, 3; XVIII, 6.

59. A. fragilis XV, 4; XVIII, 7.

60. A. sicula XVII, 1, 2; XVIII, 8.

61. A. brevispina XV, 5; XVIII, 9.

62. A. quadrifolia XVIII, 10.

63. A. cuspidata XVIII, 11.

64. A. Claparèdei XVIII, 12.

XXXIII. Genus. *Xiphacantha*.

65. *Xiphacantha cruciata* XVIII, 13.
 66. *X. serrata* XVII, 3; XVIII, 14a, 14b.
 67. *X. quadridentata* XVIII, 15a, 15b.
 68. *X. spinulosa* XVII, 4.

XXXIV. Genus. *Amphilonche*.

69. *Amphilonche tenuis* XVI, 1; XVIII, 16.
 70. *A. denticulata* XVI, 2; XVIII, 17.
 71. *A. complanata* XVI, 3; XVIII, 18a, 18b.
 72. *A. messanensis* XVI, 4; XVIII, 19.
 73. *A. tetraptera* XVI, 5; XVIII, 20.
 74. *A. belonoides* XVI, 6; XVIII, 21.
 75. *A. elongata* XVIII, 22A, 22B.
 76. *A. heteracantha* XVI, 7.
 77. *A. anomala* XVIII, 8; XVIII, 23A, 23B.

XXXV. Genus. *Acanthostaurus*.

78. *Acanthostaurus purpurascens* XIX, 1, 2.
 79. *A. forceps* XIX, 3, 4.
 80. *A. hastatus* XIX, 5.

XXXVI. Genus. *Lithoptera*.

81. *Lithoptera Muellerei* XX, 1, 2.

Zweite Unterfamilie der Acanthometriden: Astrolithida.

XXXVII. Genus. *Astrolithium*

82. *Astrolithium dicopum* XX, 3, 4.
 83. *A. bifidum* XX, 5.

XXXVIII. Genus. *Stauroolithium*.

84. *Stauroolithium cruciatum* XX, 6.

Dritte Unterfamilie der Acanthometriden: Litholophida.

XXXIX. Genus. *Litholophus*.

85. *Litholophus rhipidium* XIX, 6.

Vierte Unterfamilie der Acanthometriden: Acanthochiasmida.

XL. Genus. *Acanthochiasma*.

86. *Acanthochiasma Krohnii* XIX, 7.
 87. *A. fusiforme* XIX, 8.

Neunte Familie: Diploconida.

XLI. Genus. *Diploconus*.

88. *Diploconus fascies* XX, 7, 8.

Zehnte Familie: Ommatida.

Erste Unterfamilie der Ommatiden: Dorataspida.

XLII. Genus. *Dorataspis*.

89. *Dorataspis bipennis* XXI, 1, 2.
 90. *D. costata* XXIII, 1.
 91. *D. loricata* XXI, 3—6.
 92. *D. solidissima* XXII, 6—9.
 93. *D. diodon* XXII, 1—5.
 94. *D. polyanestra* XXI, 7—9.

XLIII. Genus. *Haliommatidium*.

95. *Haliommatidium Muellerei* XXII, 10—12.
 96. *H. tetragonopum* XXII, 13.

Zweite Unterfamilie der Ommatiden: Haliommatida.

XLIV. Genus. *Haliomma*.

97. *Haliomma capillaceum* XXIII, 2.
 98. *H. erinaceus* XXIII, 3, 4.
 99. *H. castanea* XXIV, 4.
 100. *H. echinaster* XXIV, 1—3.

XLV. Genus. *Heliodiscus*.

101. *Heliodiscus phacodiscus* XVII, 5—7.

Dritte Unterfamilie der Ommatiden: Actinommatida.

XLVI. Genus. *Actinomma*.

102. *Actinomma inerme* XXIV, 5.
 103. *A. trinacrium* XXIV, 6—8.
 104. *A. asteracanthion* XXIII, 5, 6.
 105. *A. drymodes* XXIV, 9.

XLVII. Genus. *Didymocyrtis*.

106. *Didymocyrtis ceratospiris* XXII, 14—16.

Elfte Familie: Spongurida.

Erste Unterfamilie der Sponguriden: Spongosphaerida.

XLVIII. Genus. *Rhizosphaera*.

107. *Rhizosphaera trigonacantha* XXV, 1—7.
 108. *R. leptomita* XXV, 8—10.

XLIX. Genus. *Spongosphaera*.

109. *Spongosphaera streptacantha* XXVI, 1—3.
 110. *S. helioides* XII, 11—13.

L. Genus. *Spongodictyum*.

111. *Spongodictyum trigonizon*.

Zweite Unterfamilie der Sponguriden: Spongodiscida.

LI. Genus. *Spongodiscus*.

112. *Spongodiscus mediterraneus* XII, 14, 15.

LII. Genus. *Spongostrochus*.

113. *Spongostrochus brevispinus* XXVII, 4, 5.
 114. *S. longispinus* XXVII, 2, 3.

LIII. Genus. *Spongurus*.

115. *Spongurus cylindricus* XXVII, 1.

Dritte Unterfamilie der Sponguriden: Spongocyclida.

LIV. Genus. *Spongocyclia*.

116. *Spongocyclia cycloides* XXVIII, 1.
 117. *S. elliptica* XXVIII, 2.
 118. *S. orthogona* XXVIII, 3.
 119. *S. scyllaea* XXVIII, 4.
 120. *S. charybdaea* XXVIII, 5, 6.

LV. Genus. *Stylospongia*.

121. *Stylospongia Huxleyi* XXVIII, 7.

LVI. Genus. *Spongasteriscus*.

122. *Spongasteriscus quadricornis* XXVIII, 8—10.

Zwölfte Familie: Discida.

Erste Unterfamilie der Disciden: Coccodiscida.

LVII. Genus. *Coccodiscus*.

123. *Coccodiscus Darwinii* XXVIII, 11, 12.

Zweite Unterfamilie der Disciden: Trematodiscida.

LVIII. Genus. *Trematodiscus*.

124. *Trematodiscus orbiculatus* XXIX, 1.
 125. *T. sorites* XXIX, 2.
 126. *T. heterocyclus* XXIX, 3.

LIX. Genus. *Stylodictya*.

127. *Stylodictya quadrispina* XXIX, 4.
 128. *S. multispina* XXIX, 5.

LX. Genus. *Rhopalastrum*.

129. *Rhopalastrum truncatum* XXIX, 6.

LXI. Genus. *Euchitonia*.

130. *Euchitonia Virchowii* XXX, 1—4.
 131. *E. Beckmanni* XXXI, 1.
 132. *E. Gegenbauri* XXXI, 2, 3.
 133. *E. Muellerei* XXX, 5—10.
 134. *E. Leydigii* XXXI, 4, 5.
 135. *E. Koellikeri* XXXI, 6, 7.

Dritte Unterfamilie der Disciden: Discospirida.

LXII. Genus. *Discospira*.

136. *Discospira helicoides* XXIX, 7.
 137. *D. operculina* XXIX, 8.

LXIII. Genus. *Stylospira*.

138. *Stylospira Dujardinii* XXIX, 9, 10.

Dreizehnte Familie: Lithelida.

LXIV. Genus. *Lithelius*.

139. *Lithelius spiralis* XXVII, 6, 7.
 140. *L. alveolina* XXVII, 8, 9.

Zweite Unterordnung der Radiolarien:

POLYZOA (POLYCYTTARIA).

Vierzehnte Familie: Sphaerozoida.

Erste Unterfamilie der Sphaerozoiden: Collozoida.

LXV. Genus. *Collozoum*.

141. *Collozoum inerme* XXXV, 1—14.
 142. *C. coeruleum* XXXII, 6—8.
 143. *C. pelagicum* XXXIII, 4, 5.

Zweite Unterfamilie der Sphaerozoiden: Rhaphidozoida.

LXVI. Genus. *Sphaerozoum*.

144. *Sphaerozoum italicum* XXXIII, 1, 2.

145. *S. spinulosum* XXXIII, 3, 4.

146. *S. ovoidimare* XXXIII, 5, 6.

147. *S. punctatum* XXXIII, 7—9.

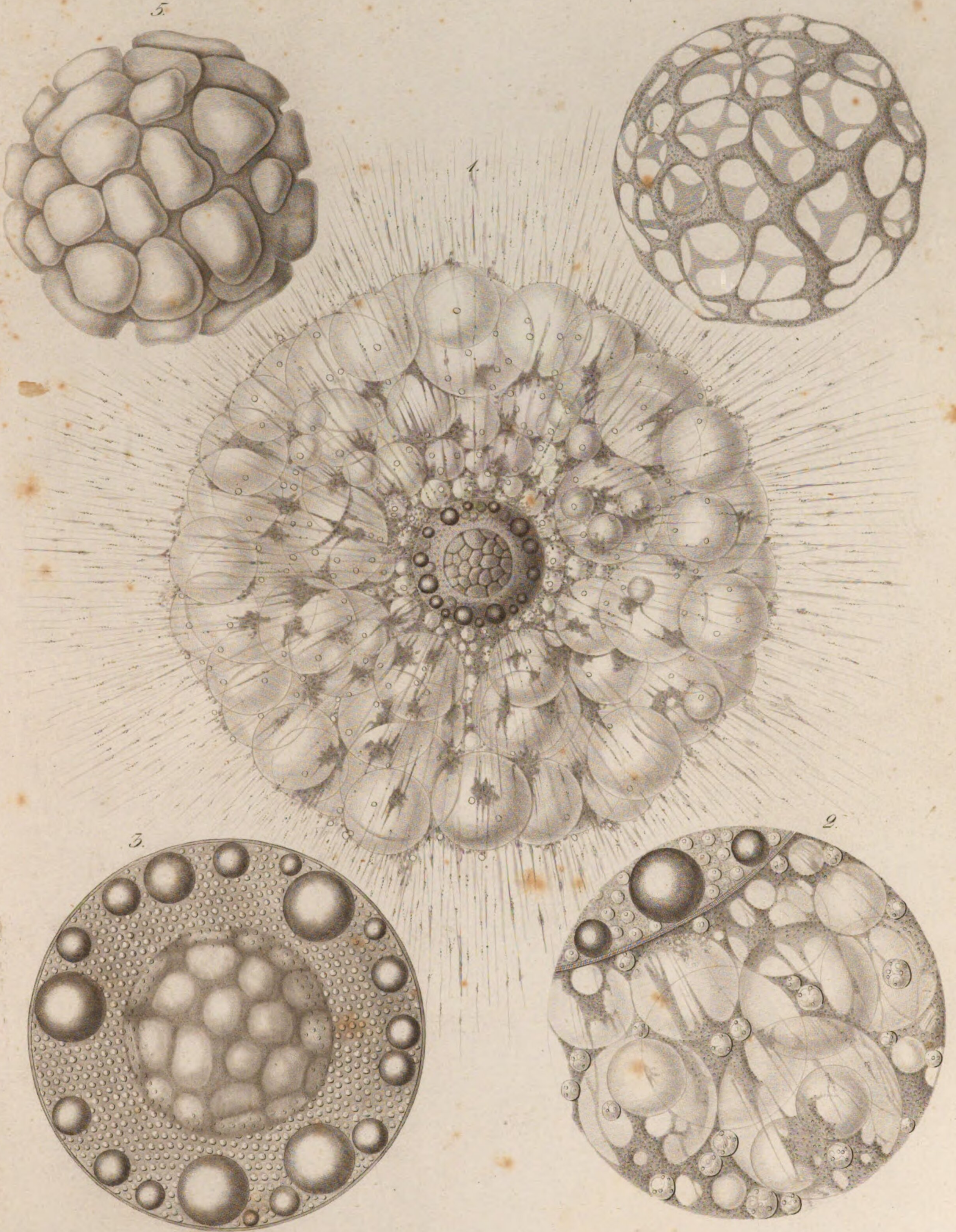
LXVII. Genus. *Rhaphidozoum*.

148. *Rhaphidozoum acuferum* XXXII, 9—11.

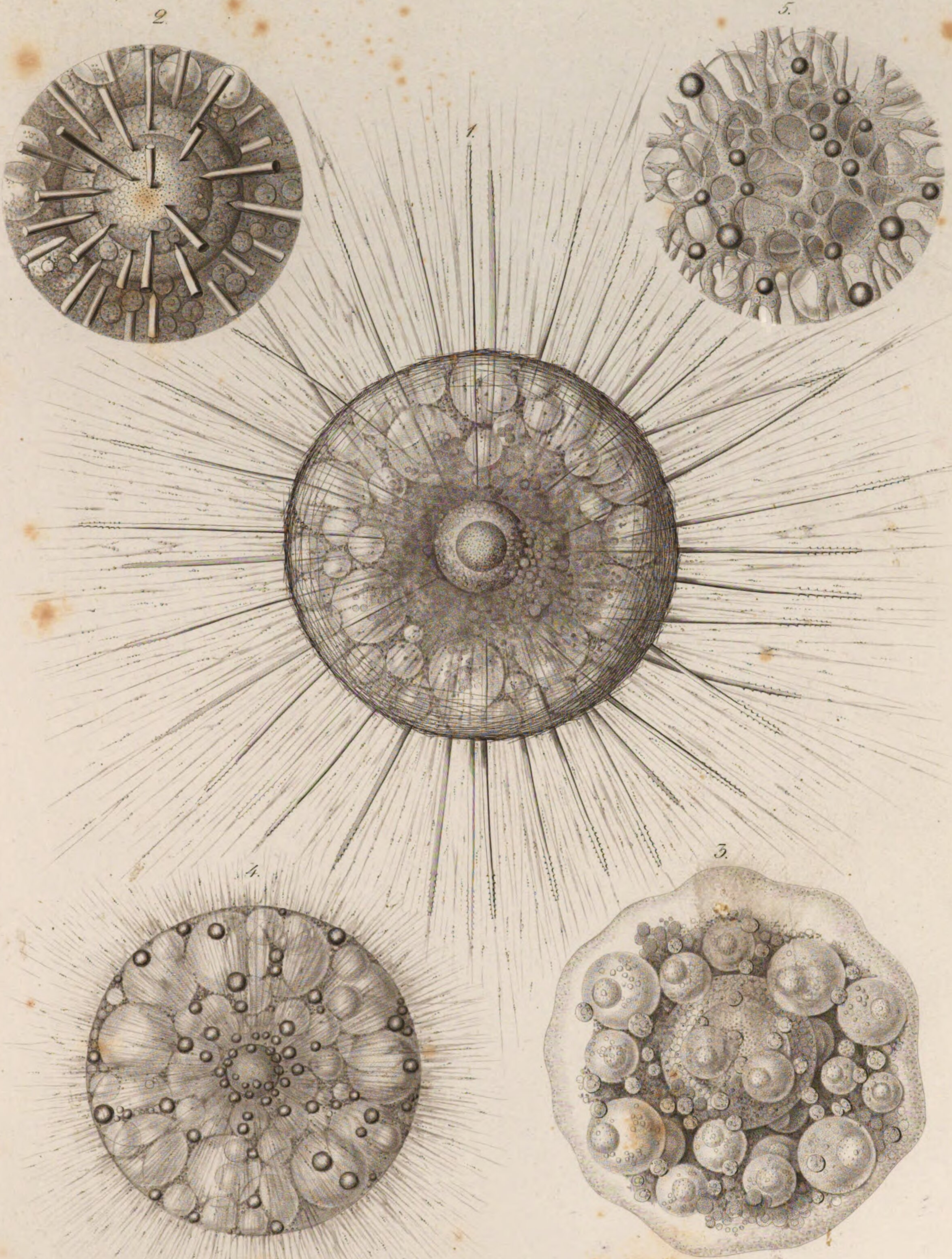
Fünfzehnte Familie: Collosphaerida.

LXVIII. Genus. *Collosphaera*.

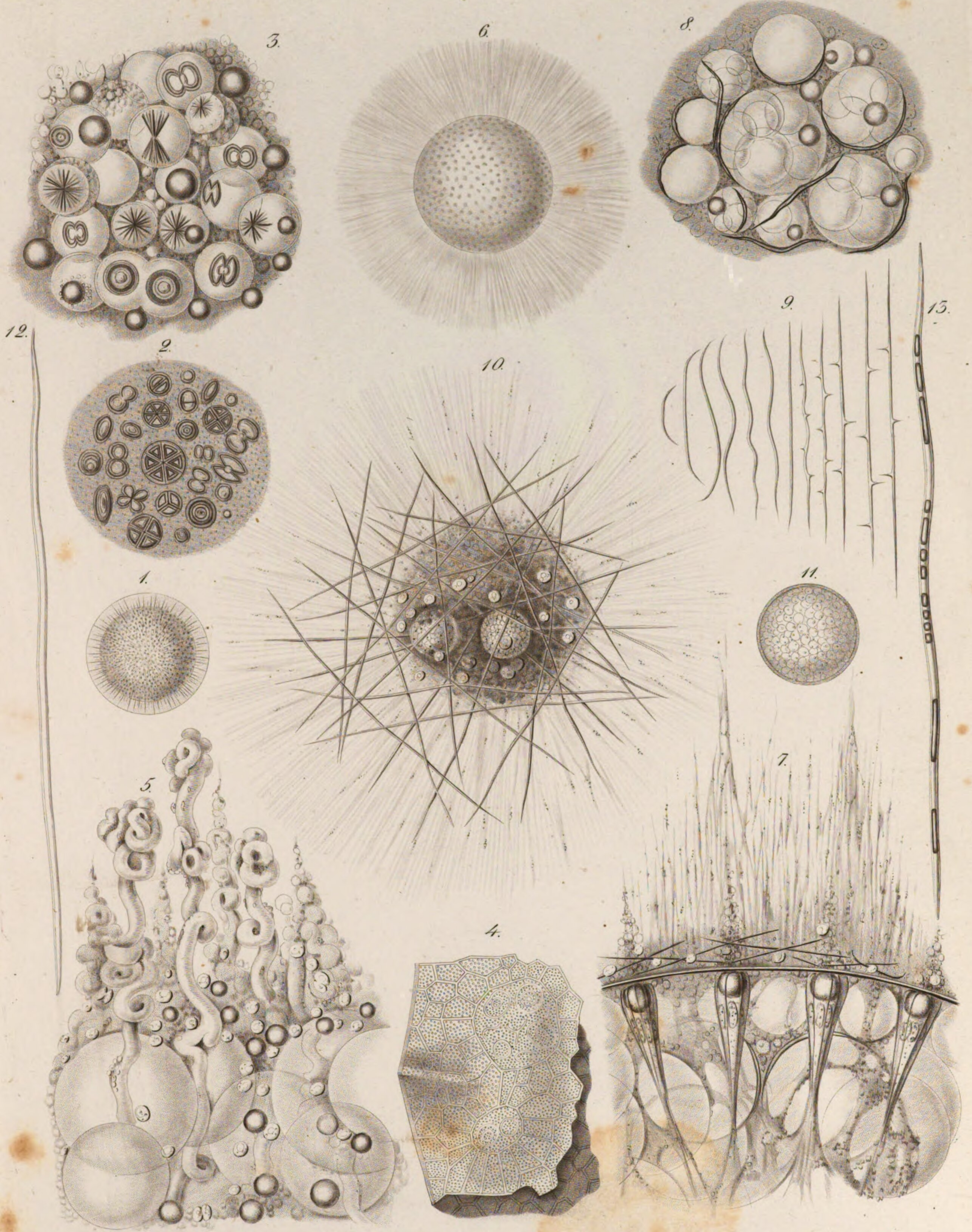
149. *Collosphaera Huxleyi* XXXIV, 1—11.
 150. *C. spinosa* XXXIV, 12, 13.



1-5. *Thalassicolla pelagica*, Hbk.

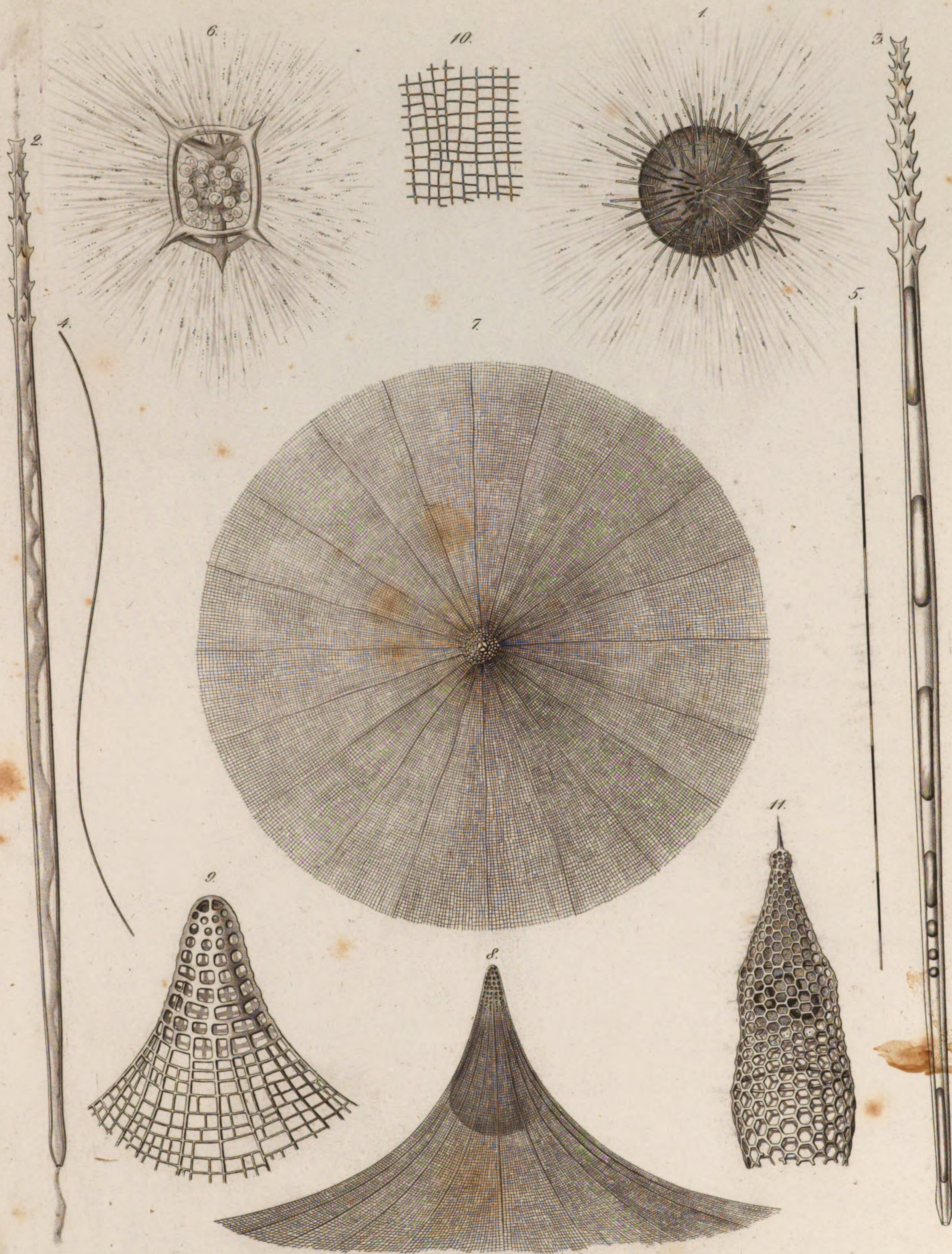


1. 2. *Aulacantha scolymantha*, Hkl. 3. *Thalassicolla Zanclea*, Hkl.
4. 5. *Thalassolampe margarodes*, Hkl.

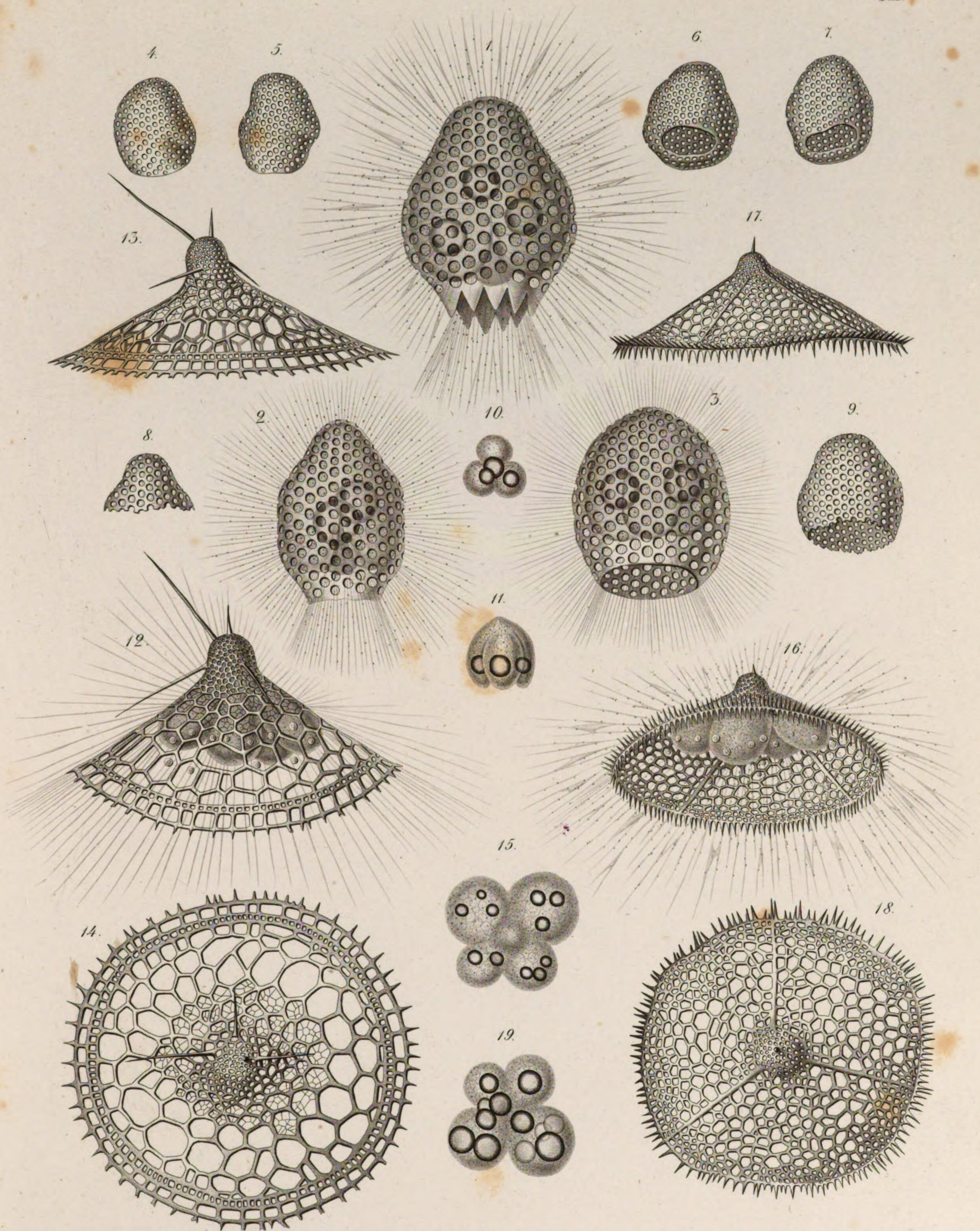


1-5. *Thalassicolla nucleata*, Huxley. 6-9. *Physematium Mülleri*, Schneider.

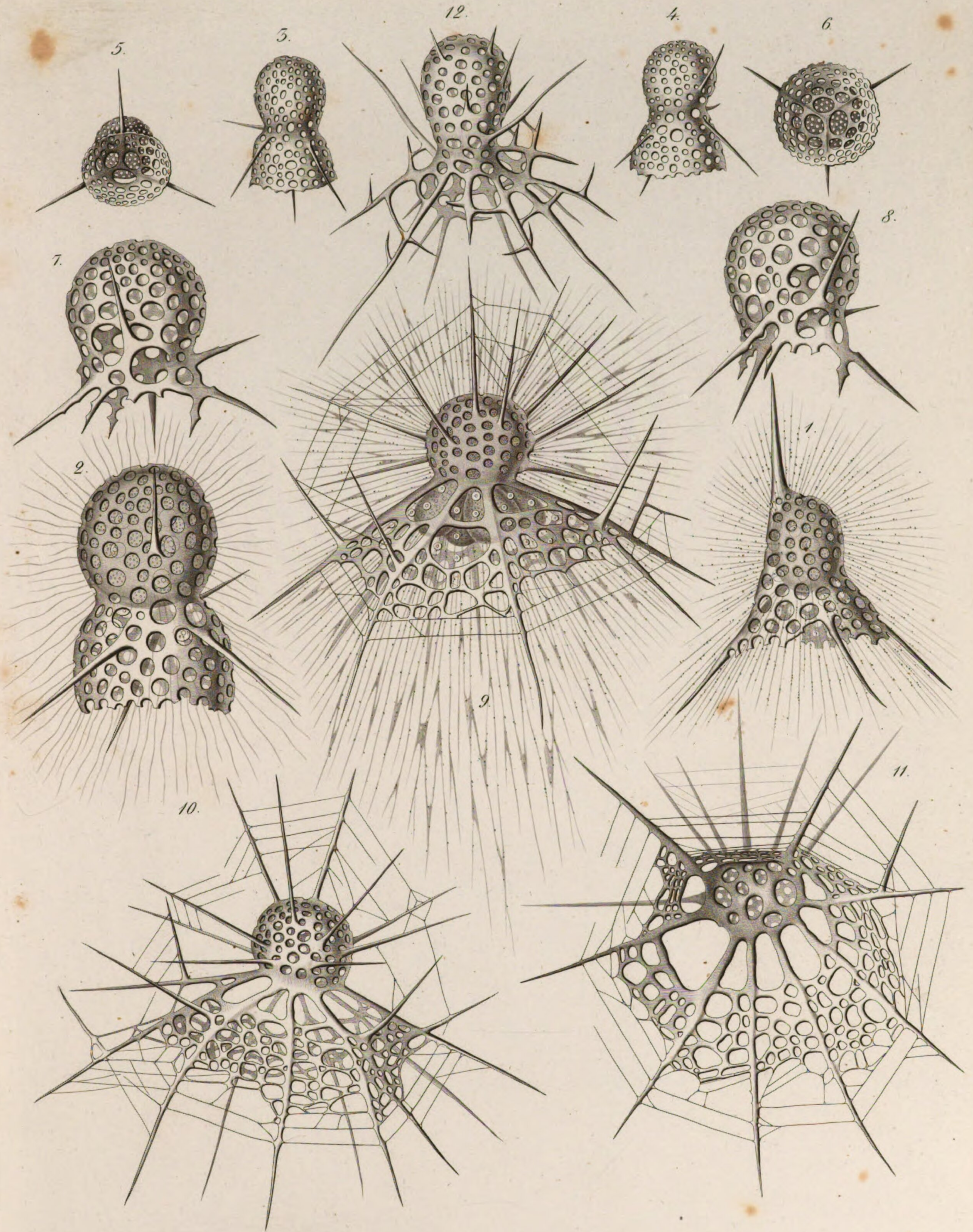
10-13. *Thalassoplancta cavispicula*, Hkl.



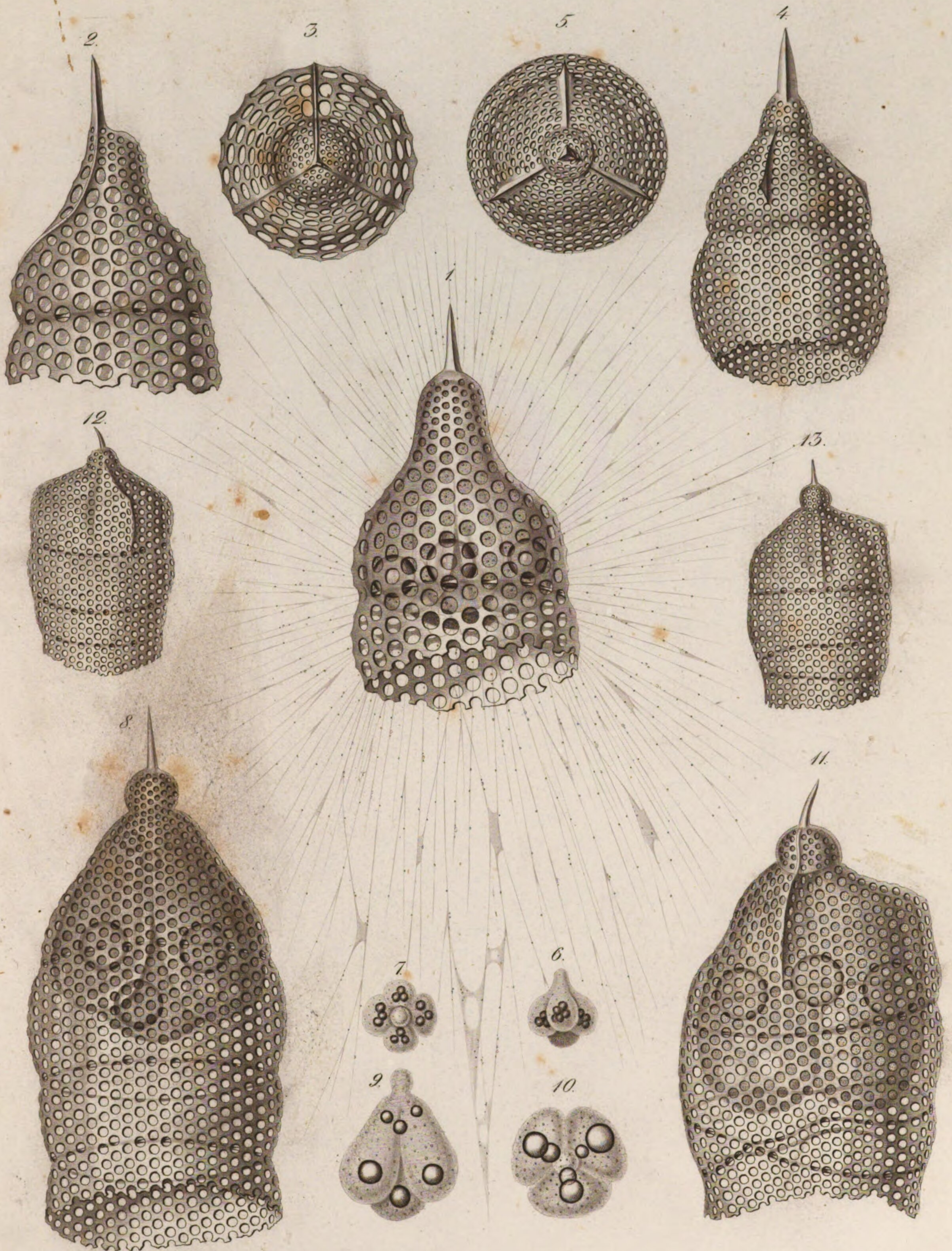
1-5. *Aulacantha scolymantha*, Hkl. 6. *Acanthodesmia Prismaticum*, Hkl.
7-10. *Litharachnium Tentorium*, Hkl. 11. *Eucyrtidium Lagena*, Hkl.



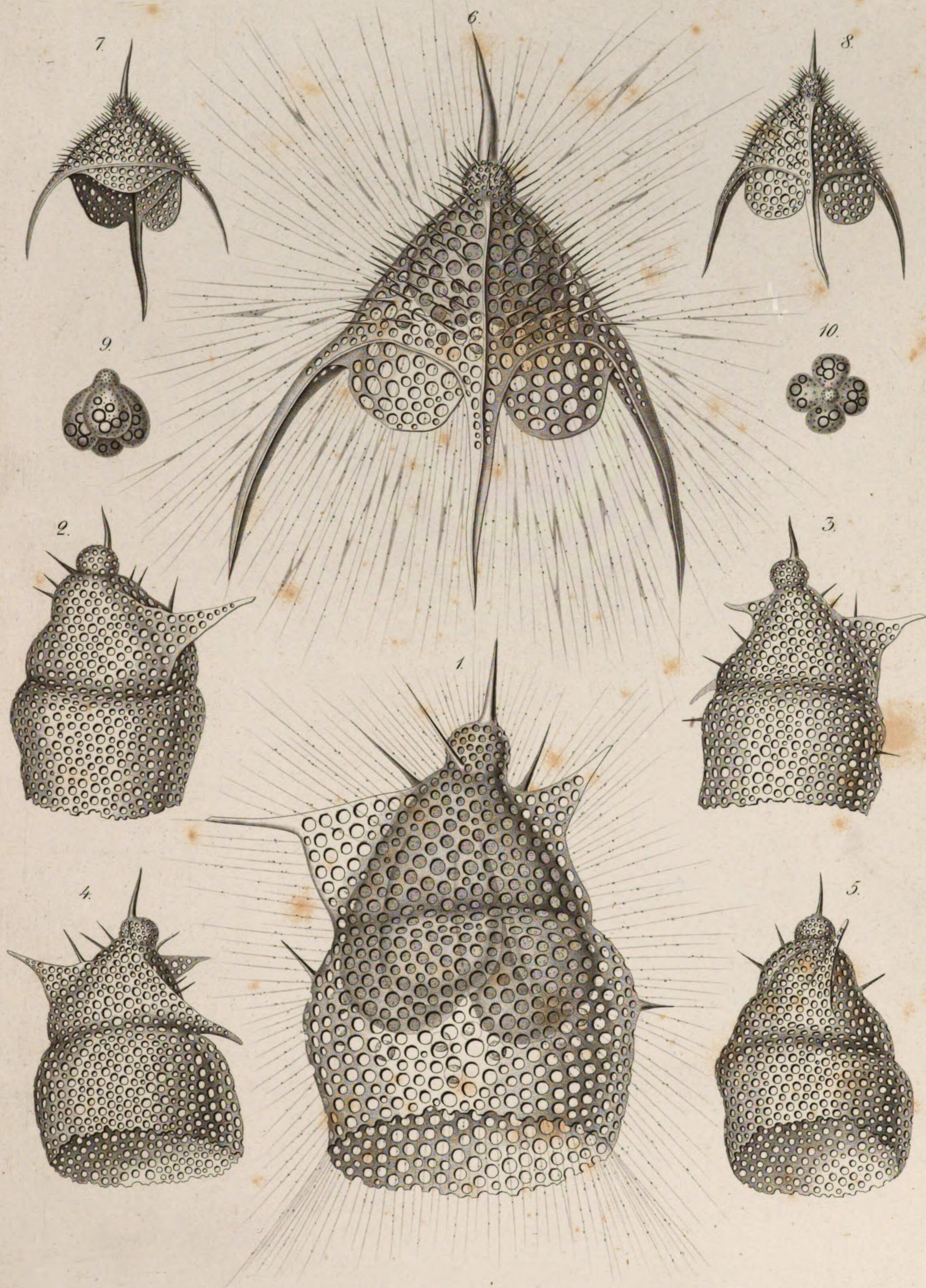
1. Carpocanium Diadema, Hkl. 2-11. Cyrtocalpis. 2. C. Amphora, Hkl. 3-11. C. obliqua, Hkl.
 12-19. Eucecryphalus. 12-15. E. Gegenbauri, Hkl. 16-19. E. Schultzei, Hkl.



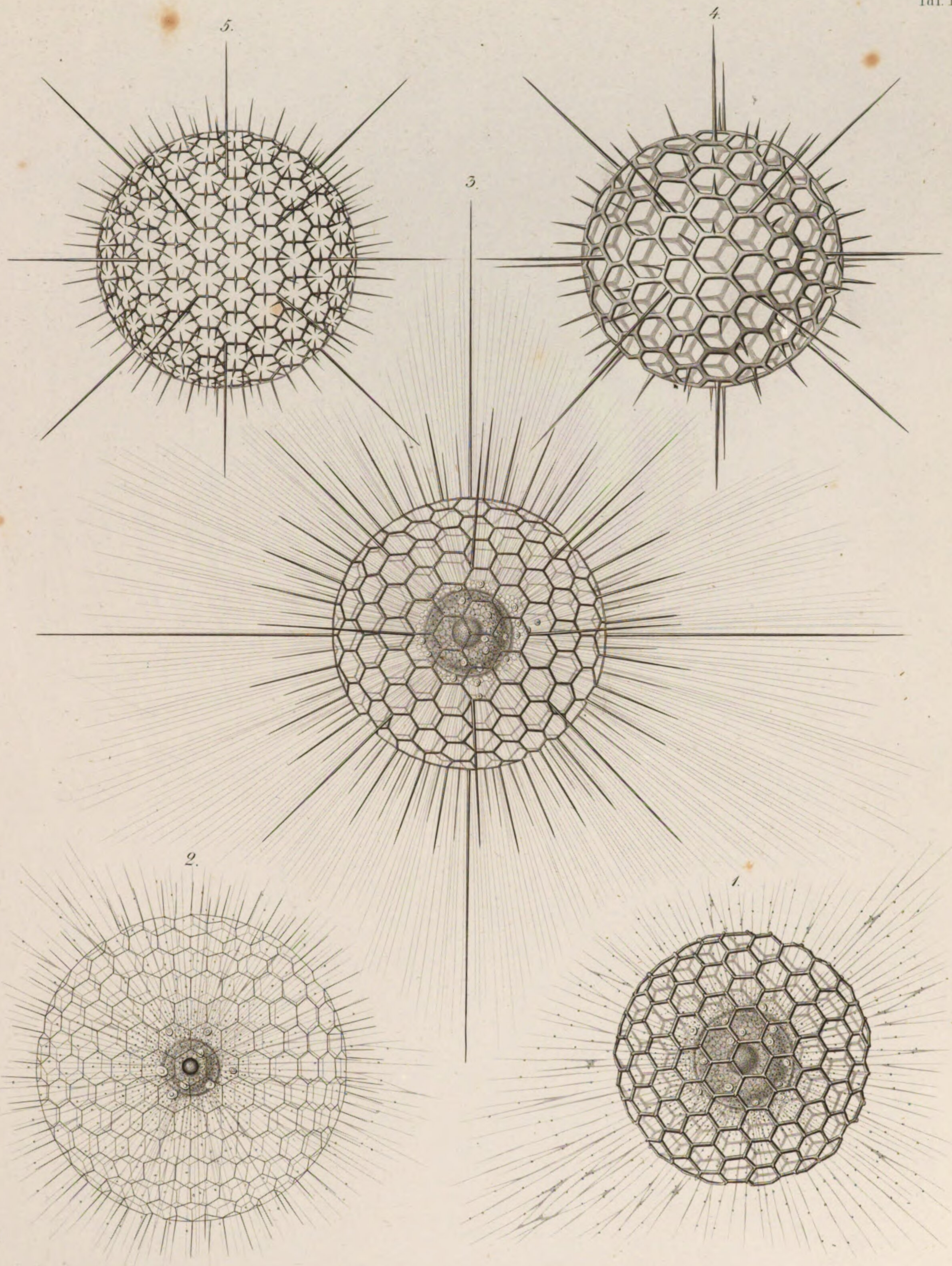
1. Dictyophimus Tripus, Hkl. 2-8. Lithomelissa Thoracites, Hkl.
9-12. Arachnocorys. 9-11. A. circumtexta, Hkl. 12. A. umbellifera, Hkl.



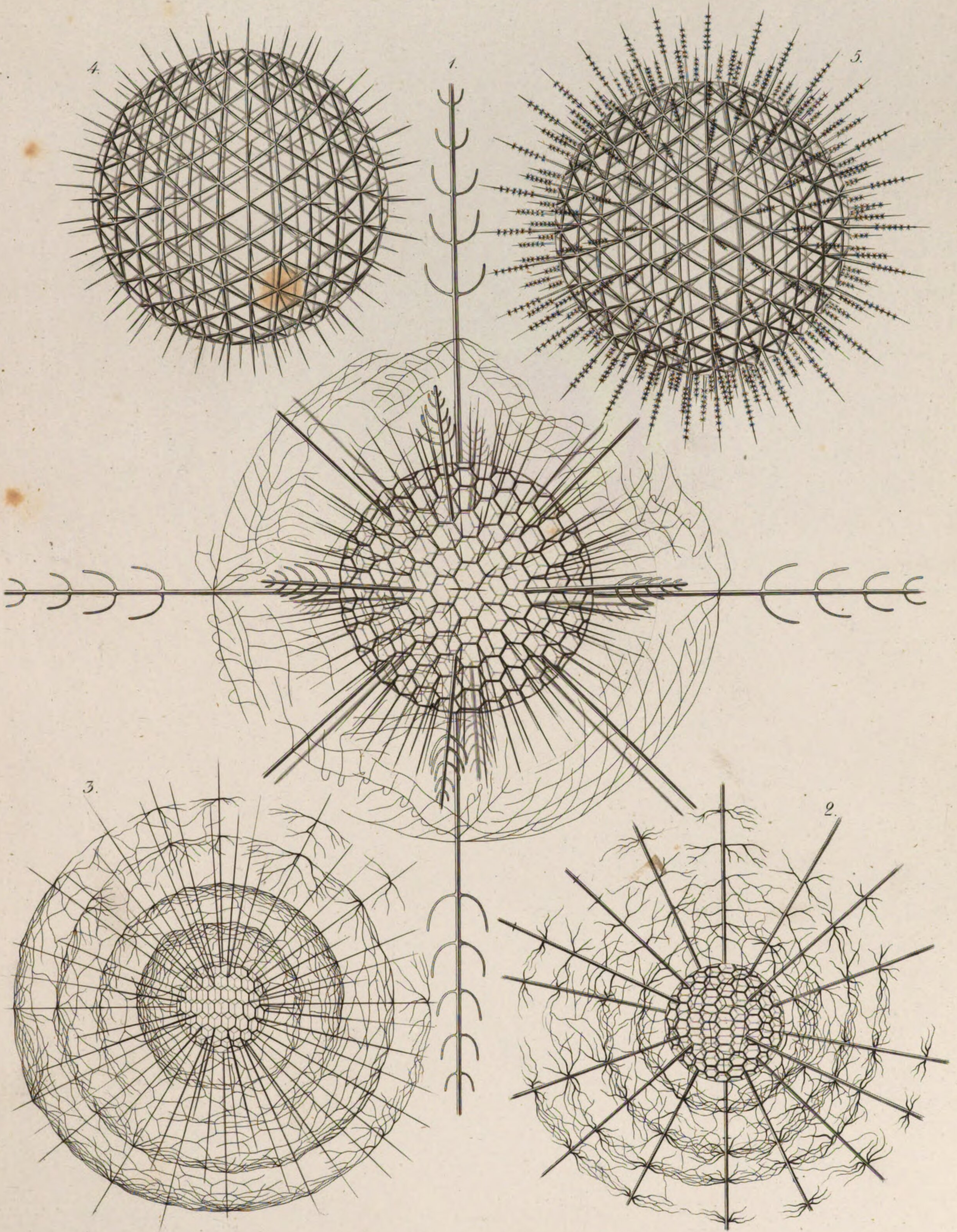
1-13. Eucyrtidium. 1-3. *E. cranoides*, Hkl. 4-7. *E. carinatum*, Hkl.
8-10. *E. Galea*; Hkl. 11-13. *E. anomalum*, Hkl.



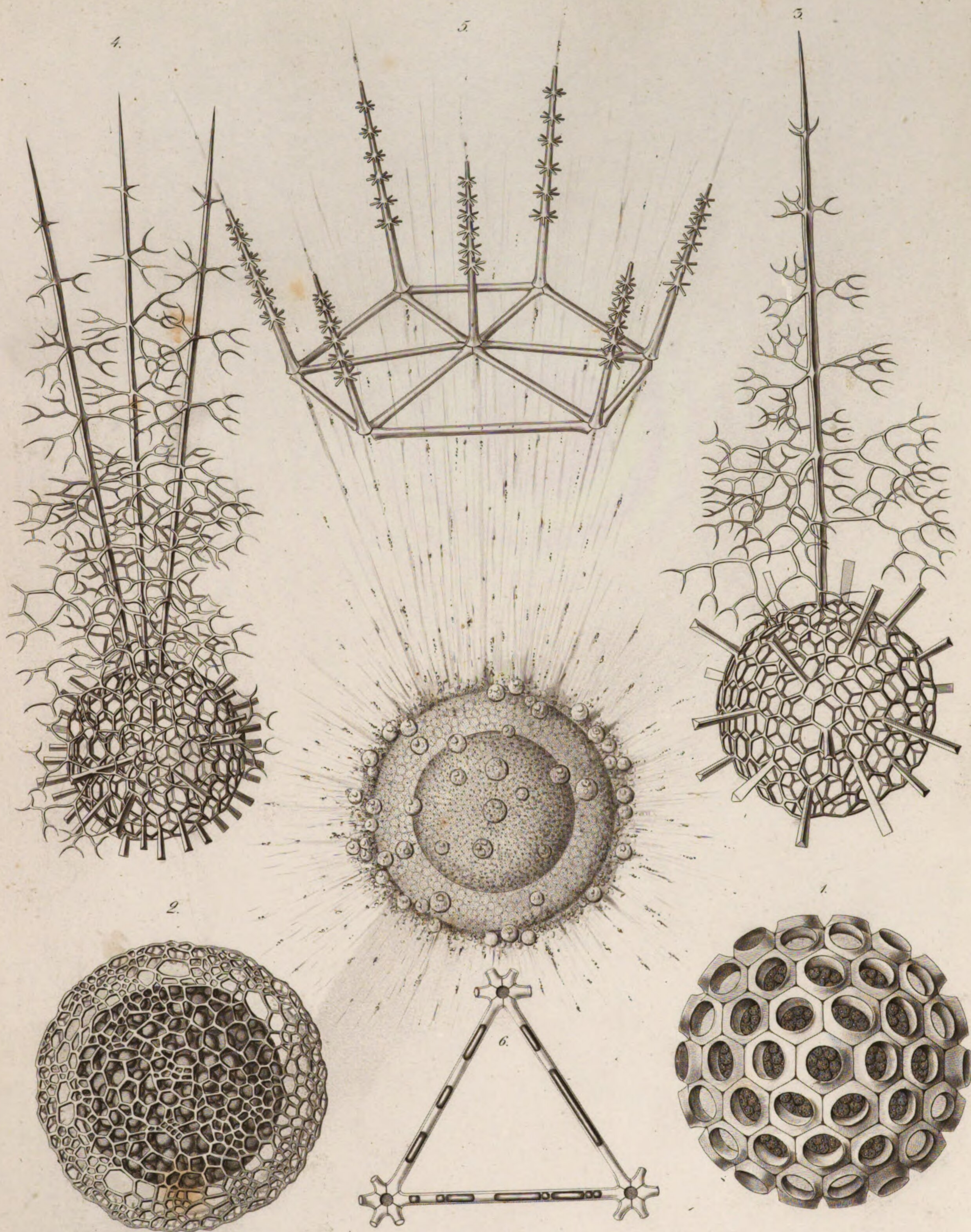
1-5. *Dictyoceras Virchowii*, Hkl. 6-10. *Dictyopodium trilobum*, Hkl.



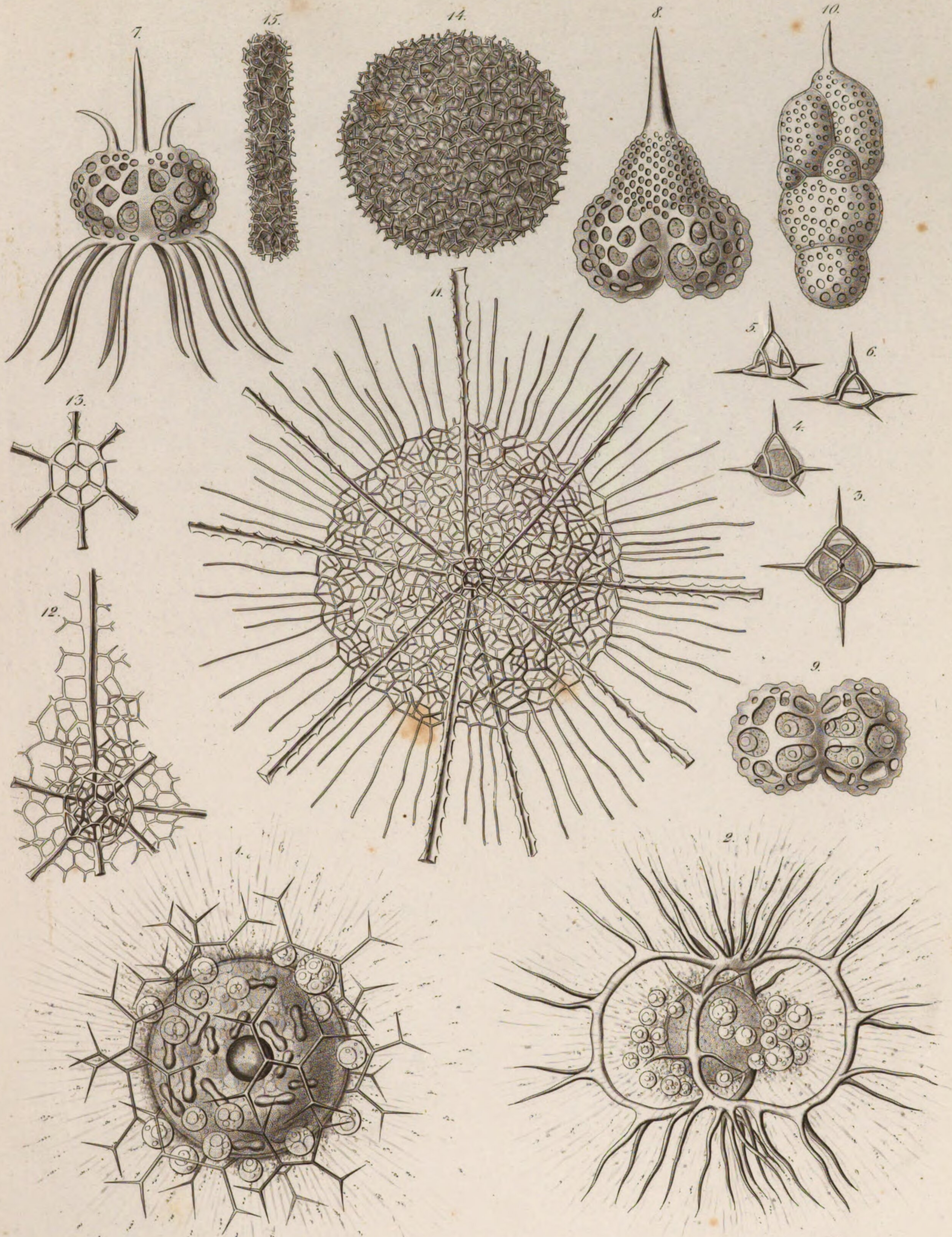
1-5. Heliosphaera. 1. *H. inermis*, Hkl. 2. *H. tenuissima*, Hkl. 3. *H. actinota*, Hkl.
4. *H. echinoides*, Hkl. 5. *H. elegans*, Hkl.



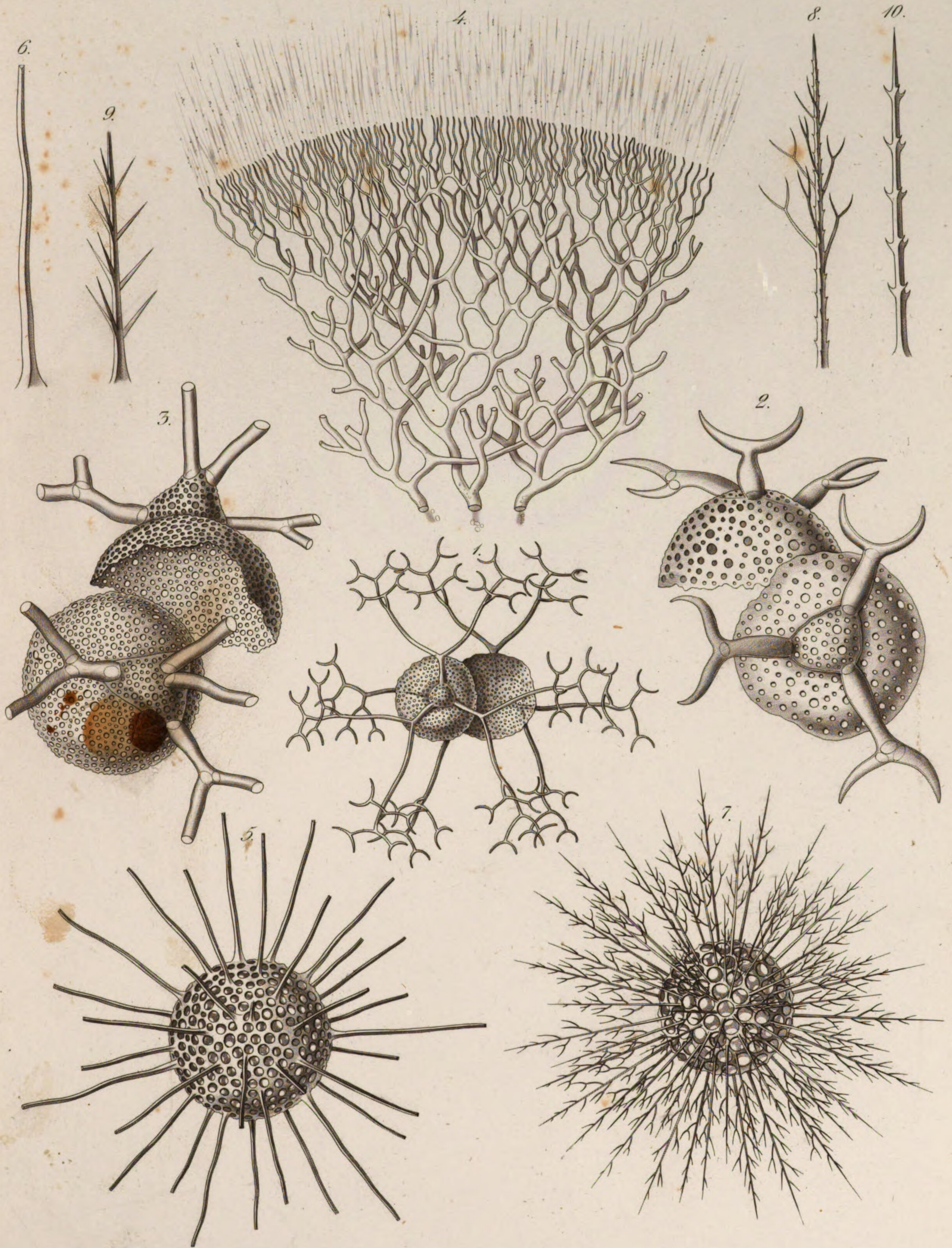
1. *Diplosphaera gracilis*, Hkl. 2. 3. *Arachnosphaera*. 2. *A. oligacantha*, Hkl.
3. *A. myriacantha*, Hkl. 4. 5. *Aulosphaera*. 4. *A. trigonopa*, Hkl. 5. *A. elegantissima*, Hkl.



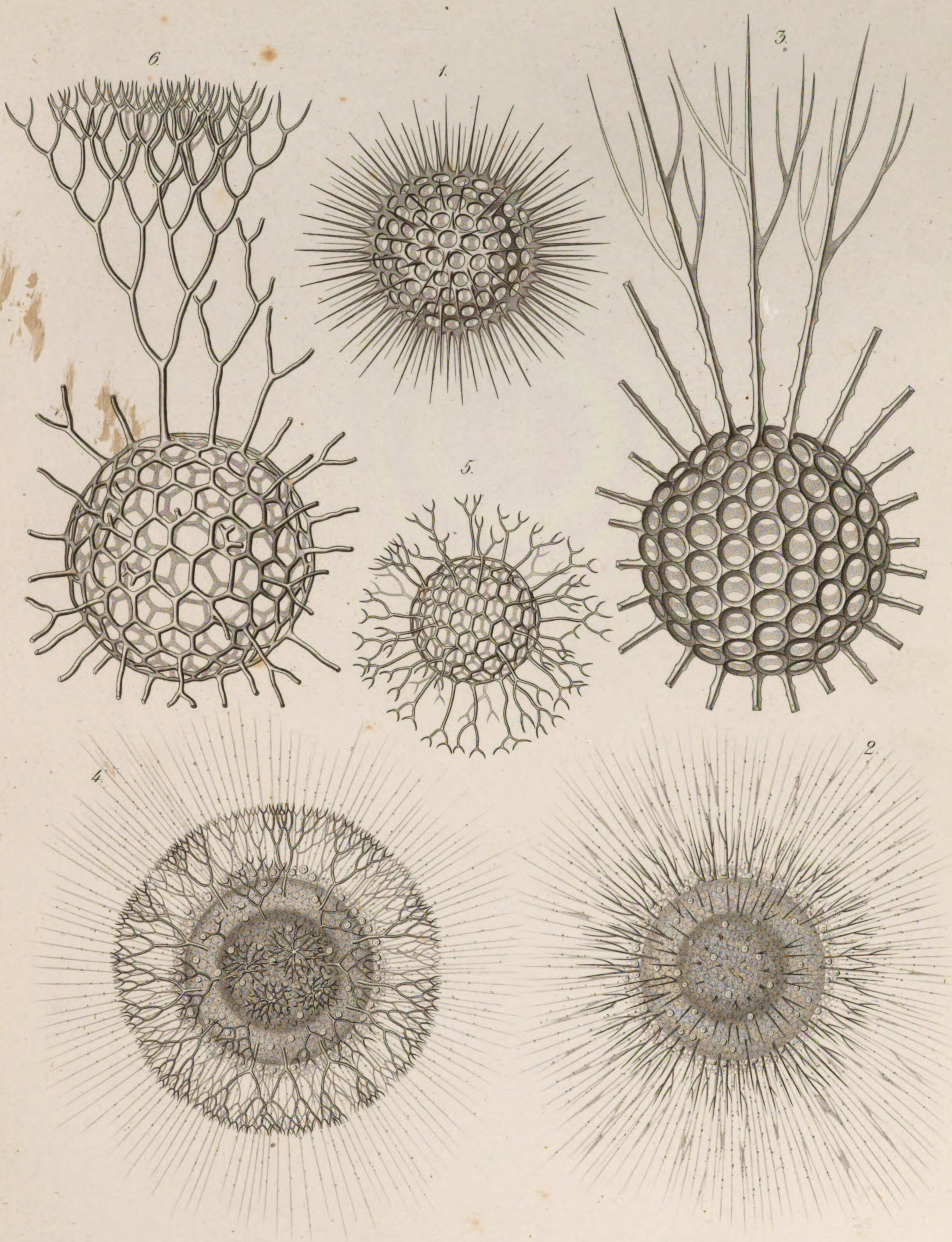
1. *Ethmosphaera siphonophora*, Hkl. 2. *Cyrtidosphaera reticulata*, Hkl. 3. 4. *Arachnosphaera*.
 3. *A. oligacantha*, Hkl. 4. *A. myriacantha*, Hkl. 5. 6. *Aulosphaera elegantissima*, Hkl.



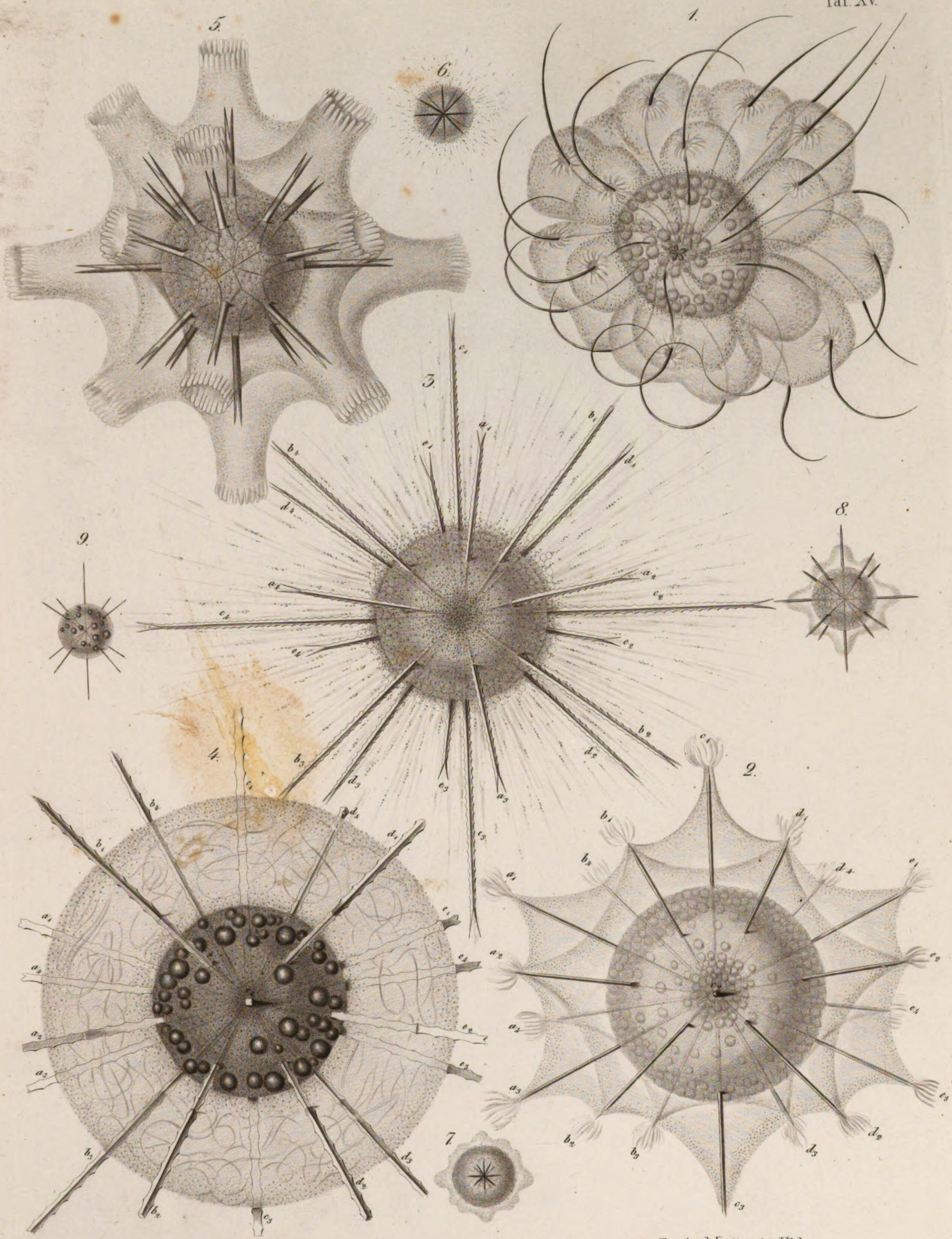
1. *Thalassosphaera bifurca*, Hkl. 2. *Zygostephanus Mülleri*, Hkl. 3-6. *Dictyocha Messanensis*, Hkl. 7. *Petalospyris arachnoides*, Hkl. 8. 9. *Spyridobotrys Trinacria*, Hkl. 10. *Botryocampe hexathalamia*, Hkl. 11-13. *Spongospaera helioides*, Hkl. 14. 15. *Spongodiscus Mediterraneus*, Hkl.



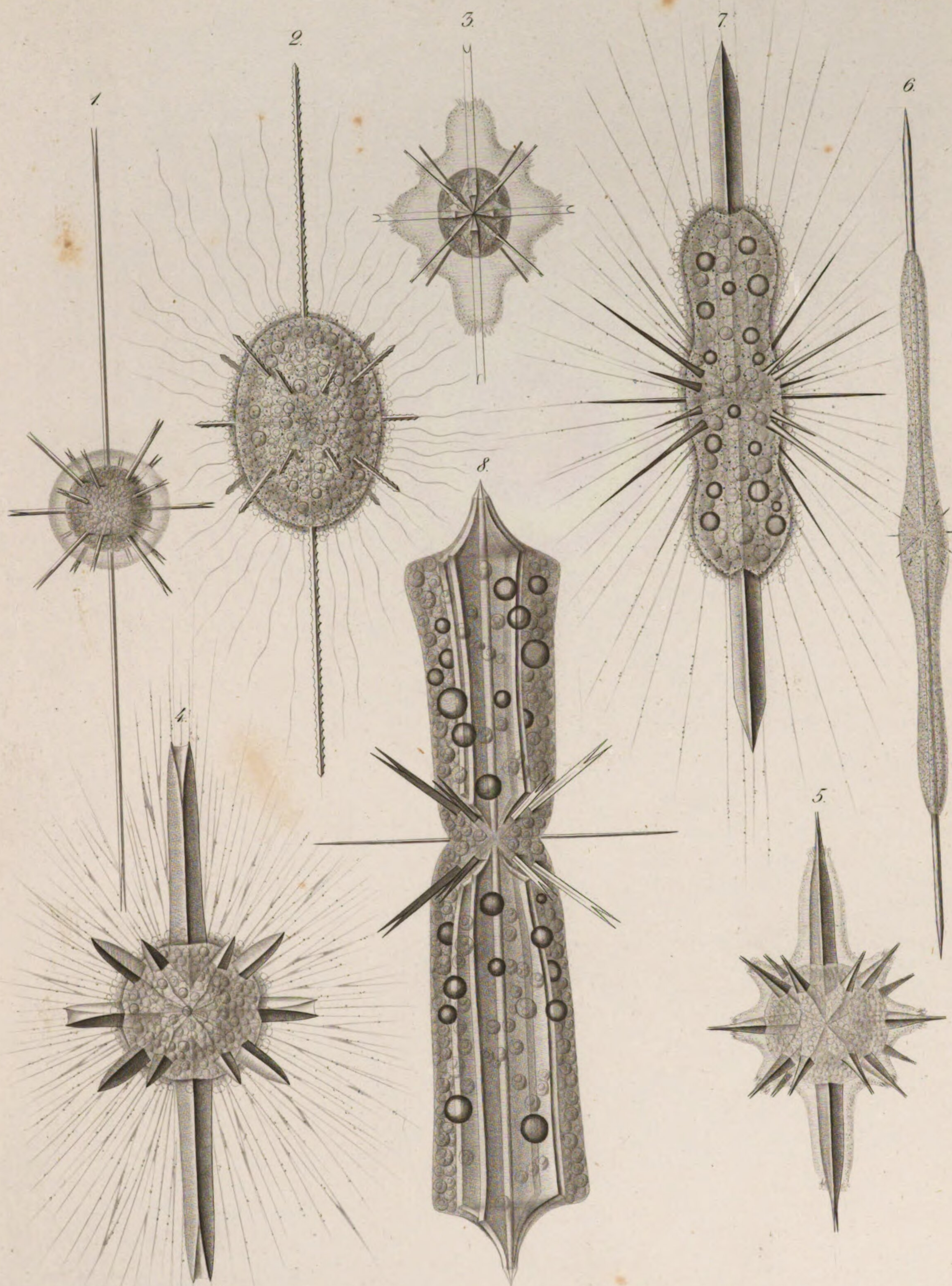
1-4. *Coelodendrum ramosissimum*, Hkl. 5. 6. *Rhaphidococcus simplex*, Hkl. 7-10. *Cladococcus*.
 7. 8. *C. bifurcus*, Hkl. 9. *C. spinifer*, Hkl. 10. *C. dentatus*, Hkl.



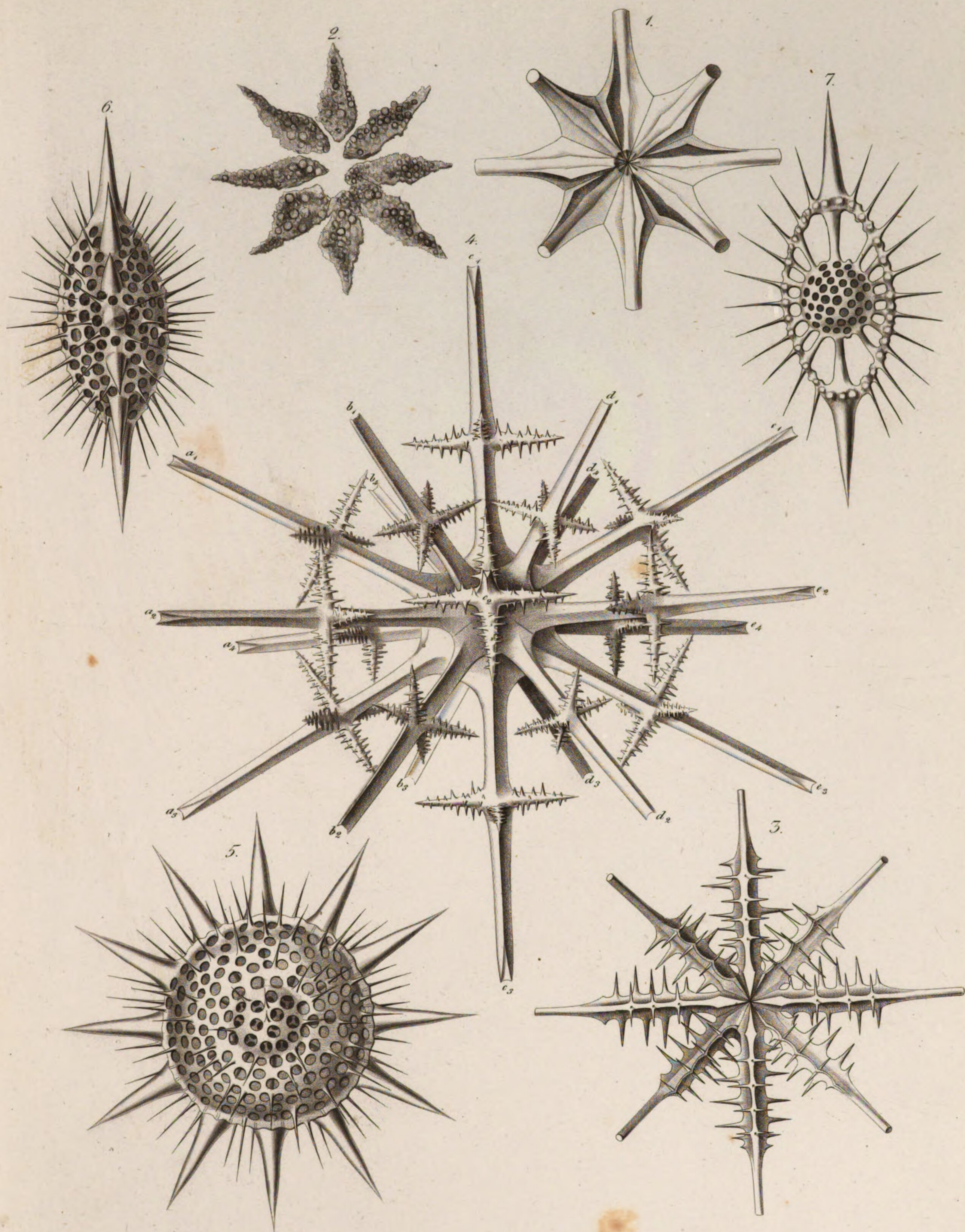
1. *Rhaphidococcus acifer*, Hkl. 2-6. *Cladococcus*.
2. 3. *C. viminalis*, Hkl. 4-6. *C. cervicornis*, Hkl.



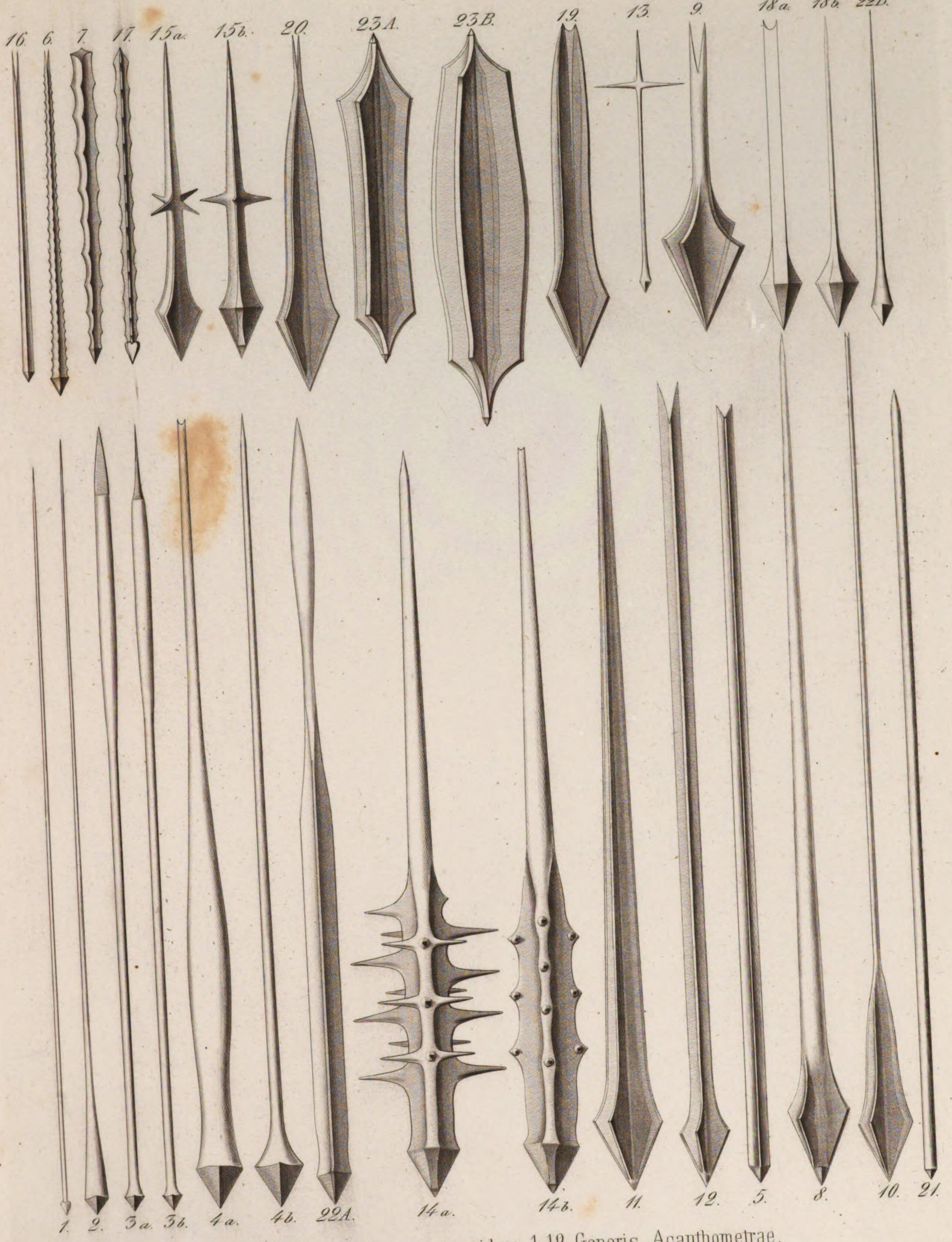
1-9. Acanthometra. 1. *A. elastica*, Hkl. 2. *A. bulbosa*, Hkl. 3. *A. Mülleri*, Hkl.
4. *A. fragilis*, Hkl. 5. *A. brevispina*, Hkl. 6-9. Acanthometrae juvenes.



1-8. Amphilonche. 1. *A. tenuis*, Hkl. 2. *A. denticulata*, Hkl. 3. *A. complanata*, Hkl. 4. *A. Messanensis*, Hkl.
5. *A. tetraptera*, Hkl. 6. *A. belonoides*, Hkl. 7. *A. heteracantha*, Hkl. 8. *A. anomala*, Hkl.



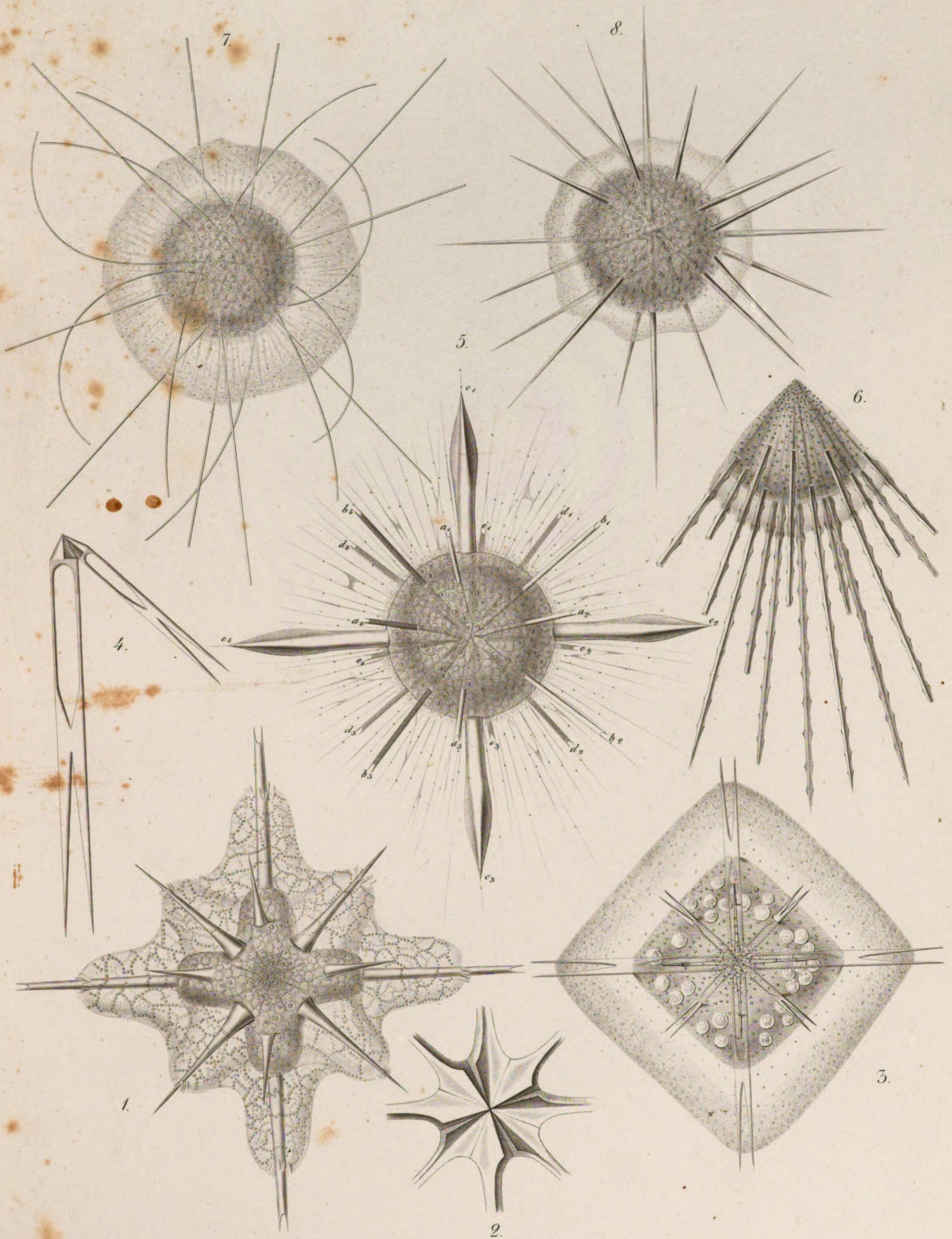
1. 2. Acanthometra Sicula, Hkl. 3. 4. Xiphacantha. 3. X. serrata, Hkl.
4. X. spinulosa, Hkl. 5-7. Heliodiscus Phacodiscus, Hkl.



1-23. Aculei Acanthostauridum, 1-12. Generis Acanthometrae,
 13-15. Generis Xiphacanthae, 16-23. Generis Amphilonchae.

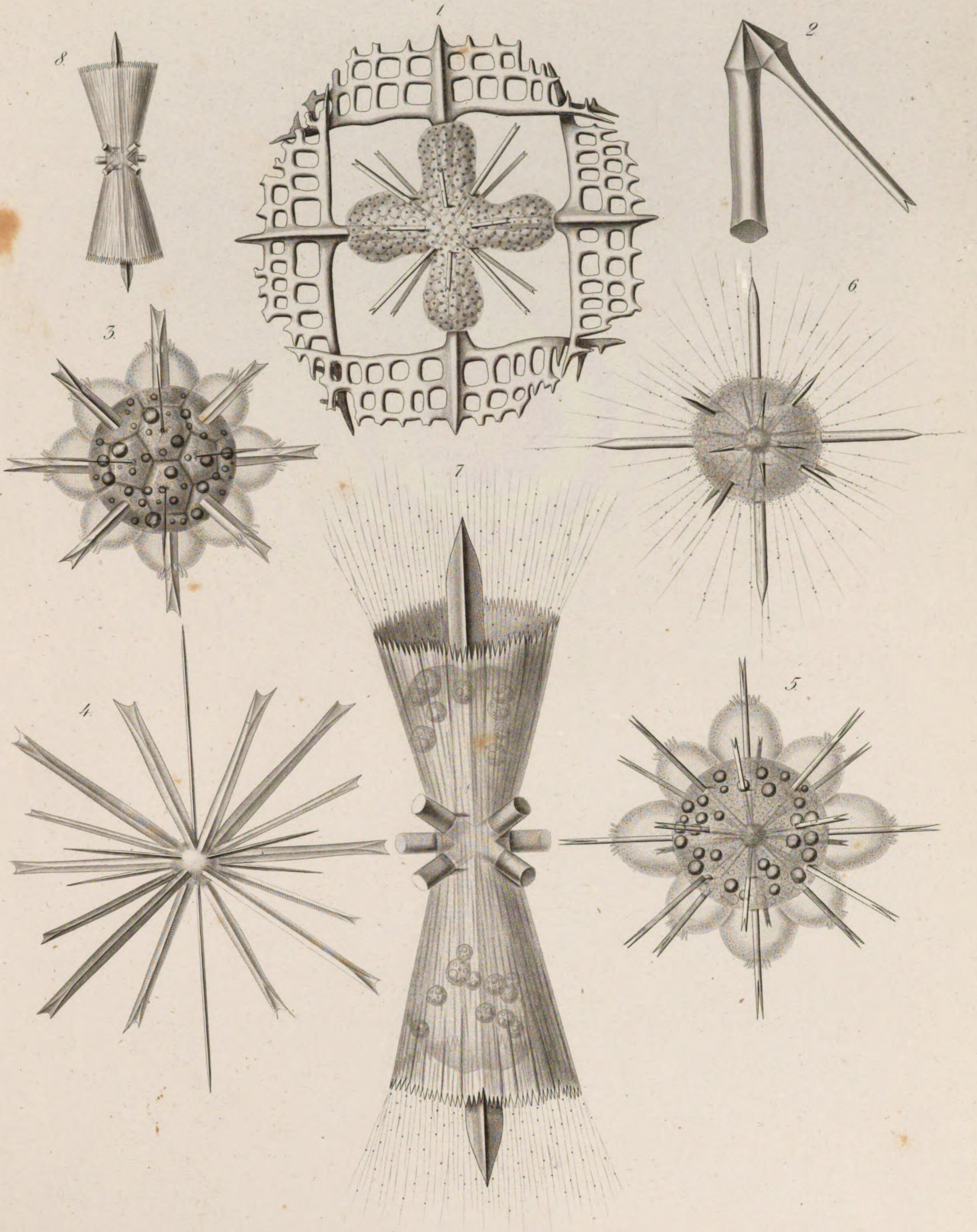
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1-5. Acanthostaurus. 1. 2. *A. purpurascens*, Hkl. 3. 4. *A. Forceps*, Hkl. 5. *A. hastatus*, Hkl.
 6. *Litholophus Rhipidium*, Hkl. 7. 8. *Acanthochiasma*. 7. *A. Krohnii*, Hkl. 8. *A. fusiforme*, Hkl.

Wagenschieberac.



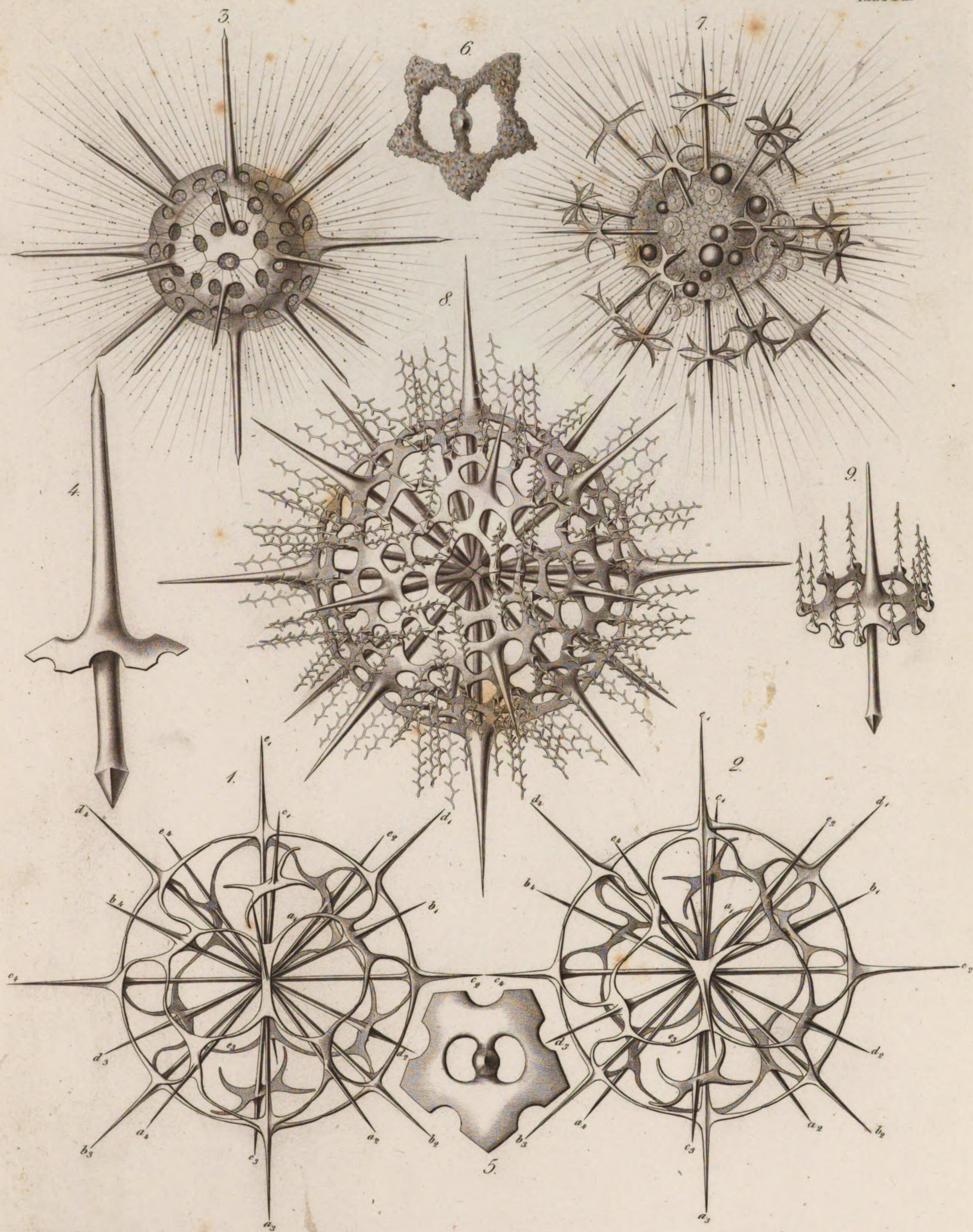
1. 2. *Lithoptera Mülleri*, Hkl. 3-6. *Astrolithium*. 3. 4. *A. dicopum*, Hkl.
5. *A. bifidum*, Hkl. 6. *A. cruciatum*, Hkl. 7. 8. *Diploconus Fasces*, Hkl.

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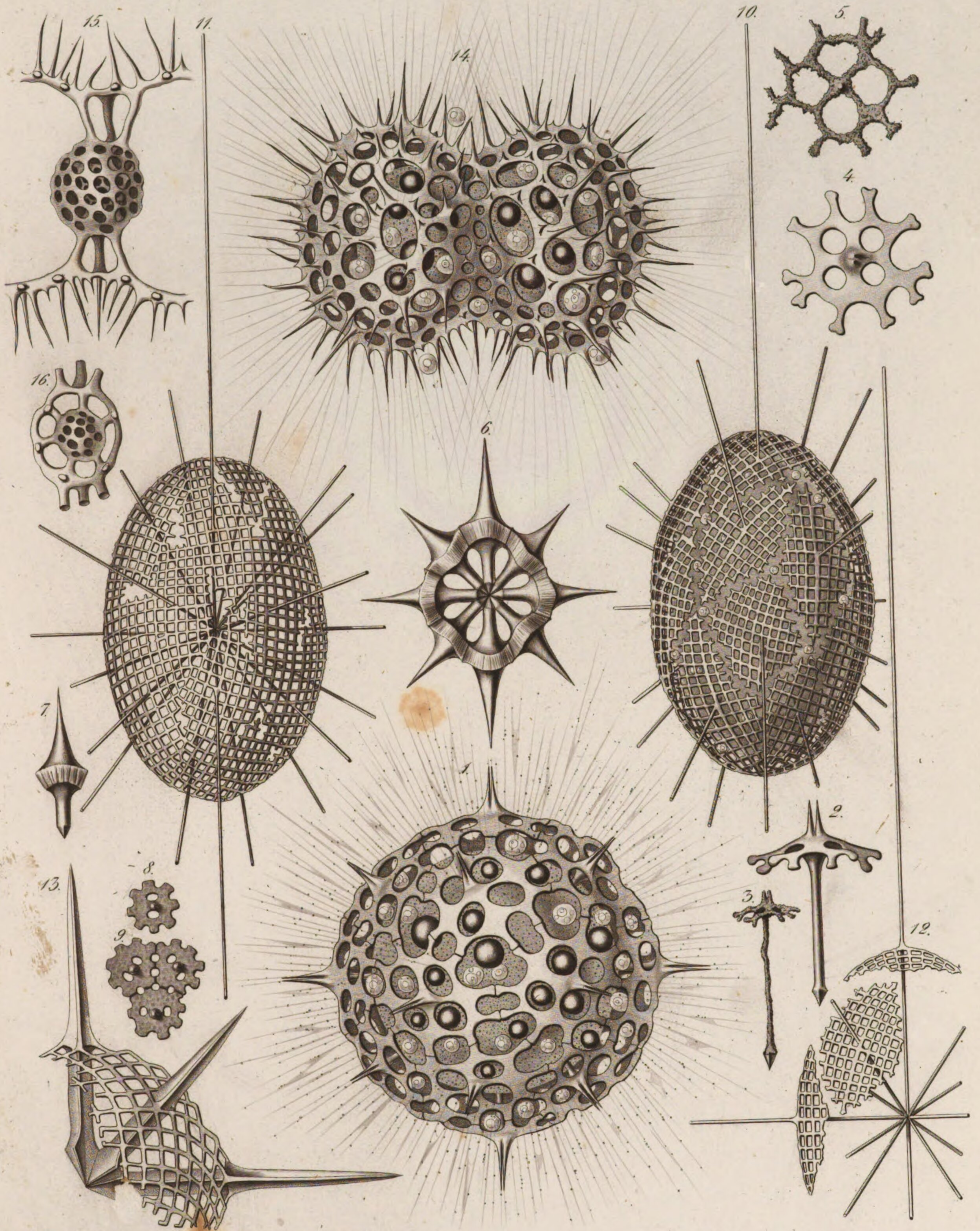
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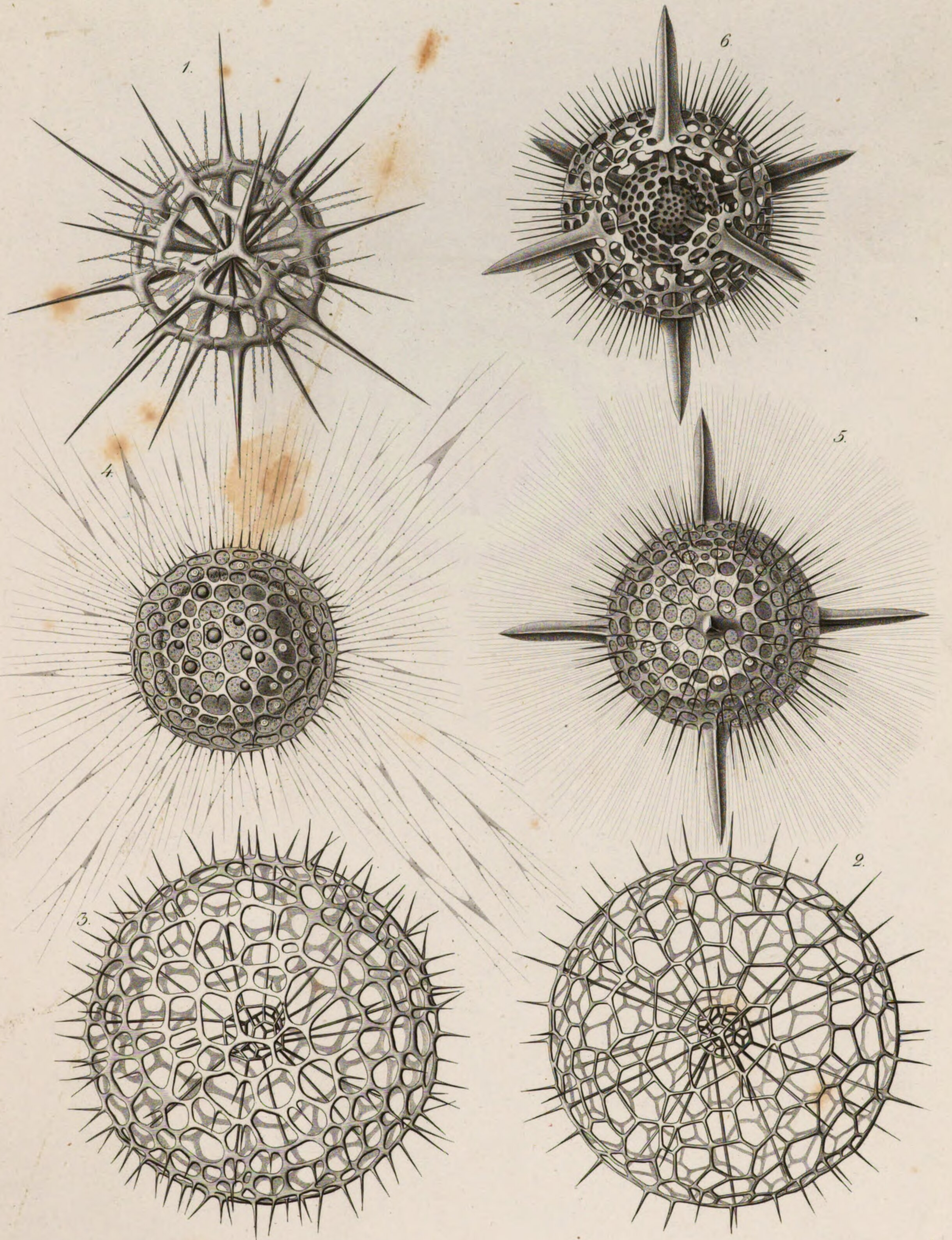
Faint handwritten text at the bottom of the page, possibly a signature or a note.



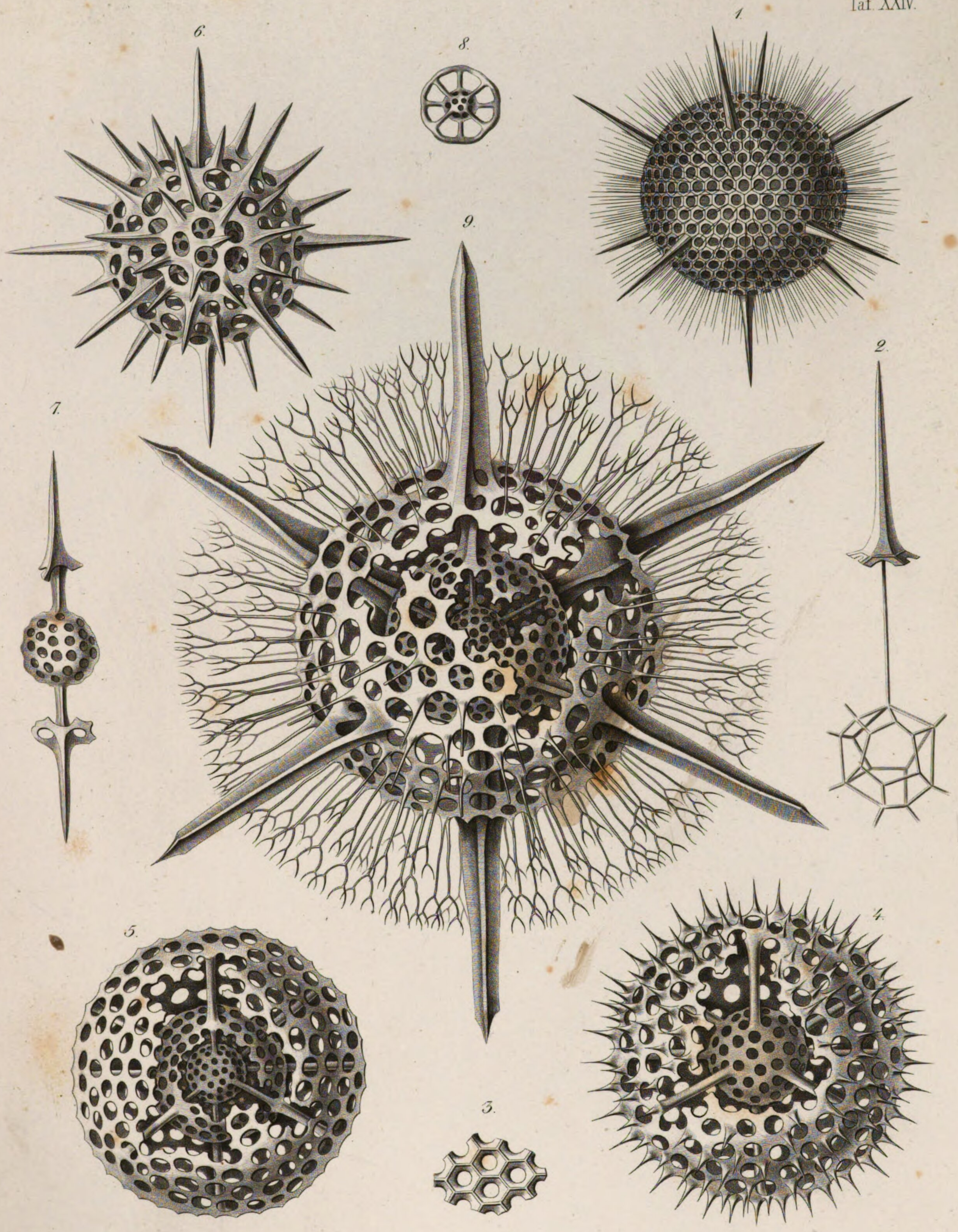
1-9. *Dorataspis*. 1. 2. *D. bipennis*, Hkl. 3-6. *D. loricata*, Hkl.
7-9. *D. polyancistra*, Hkl.



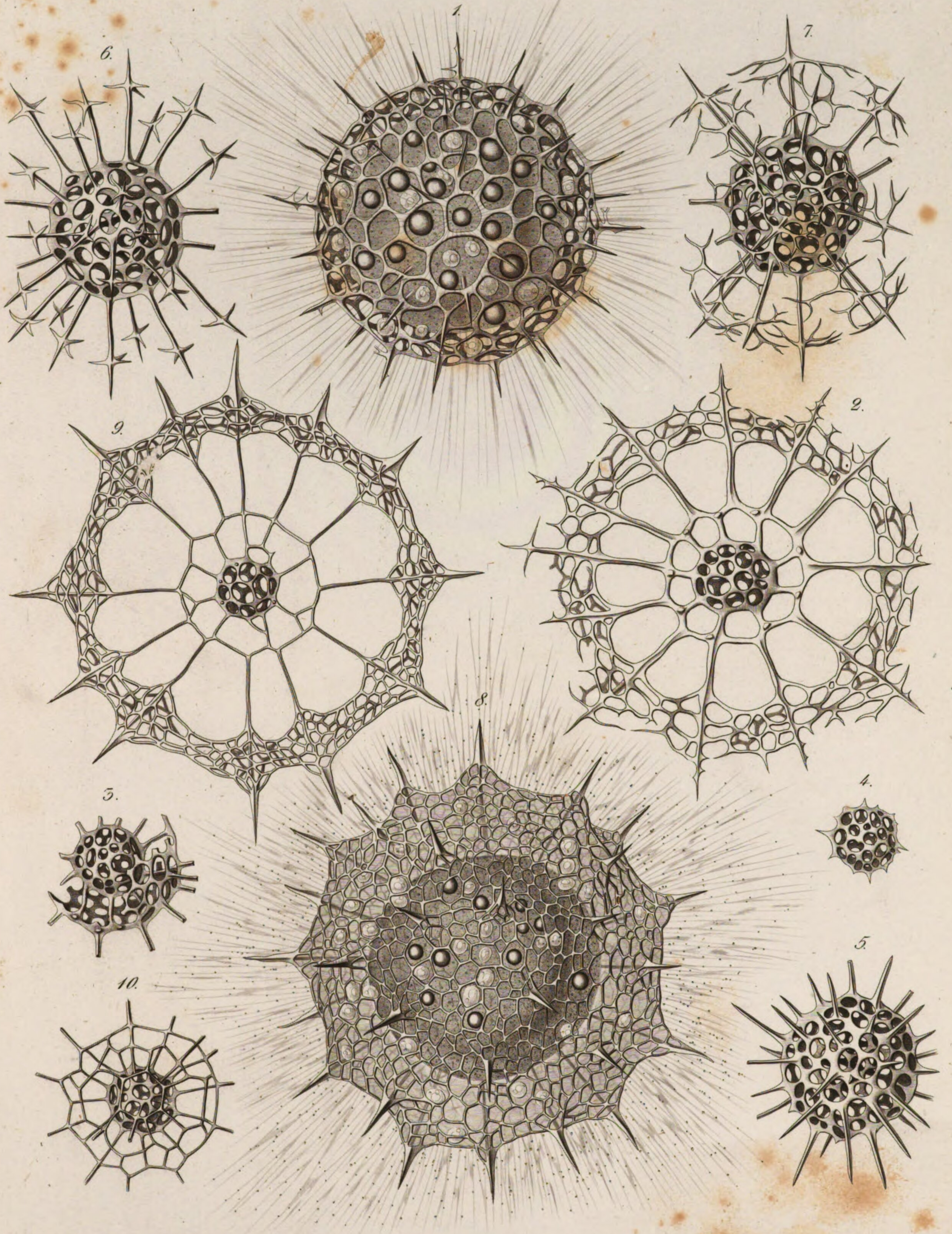
1-9. *Dorataspis*. 1-5. *D. Diodon*, Hkl. 6-9. *D. solidissima*, Hkl. 10-13. *Haliommatidium*.
 10-12. *H. Mülleri*, Hkl. 13. *H. tetragonopum*, Hkl. 14-16. *Didymocyrtis* *Ceratospyris*.



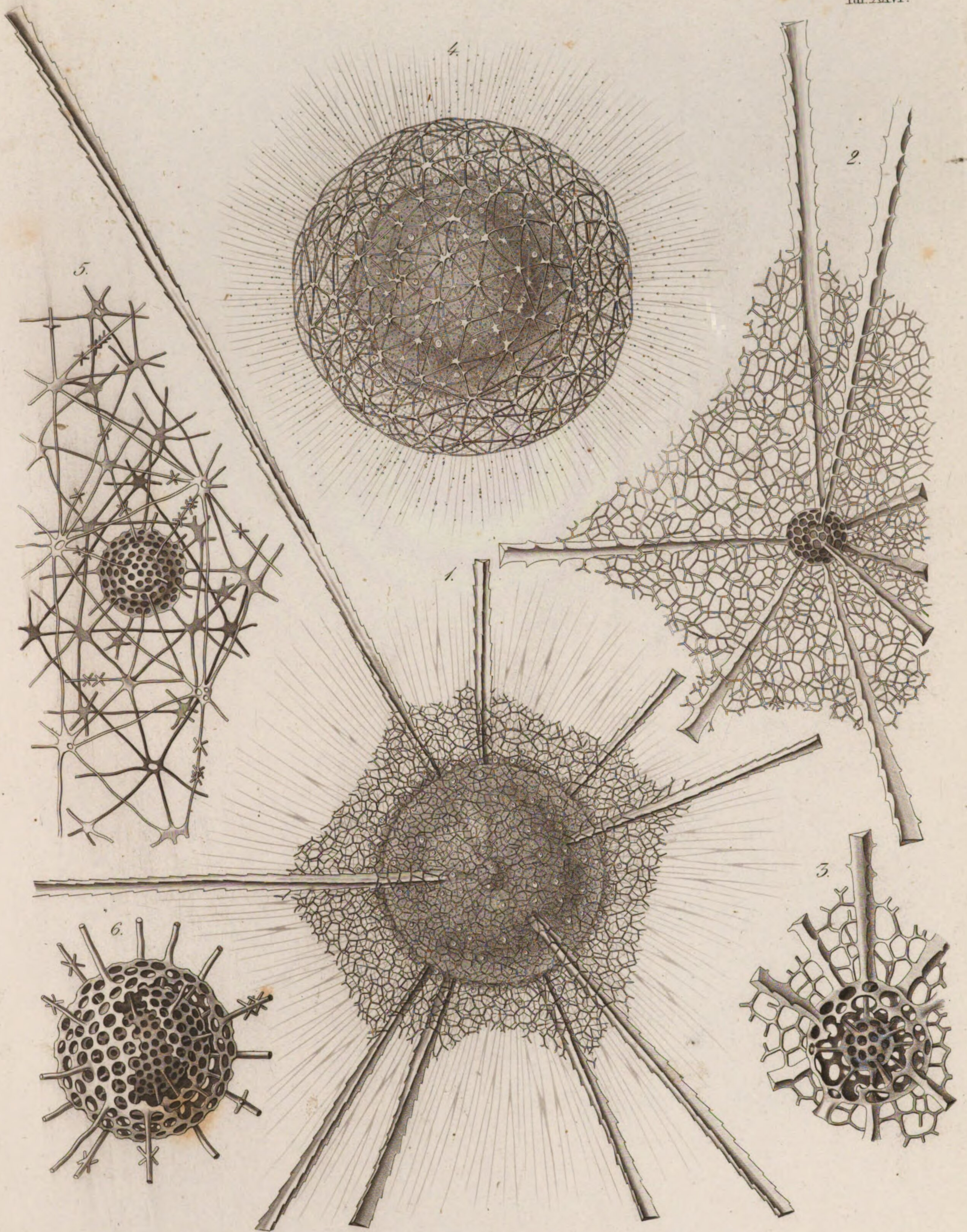
1. *Dorataspis costata*, Hkl. 2-4. *Haliomma*. 2. *H. capillaceum*, Hkl.
3. 4. *H. Erinaceus*, Hkl. 5. 6. *Actinomma Asteracanthion*, Hkl.



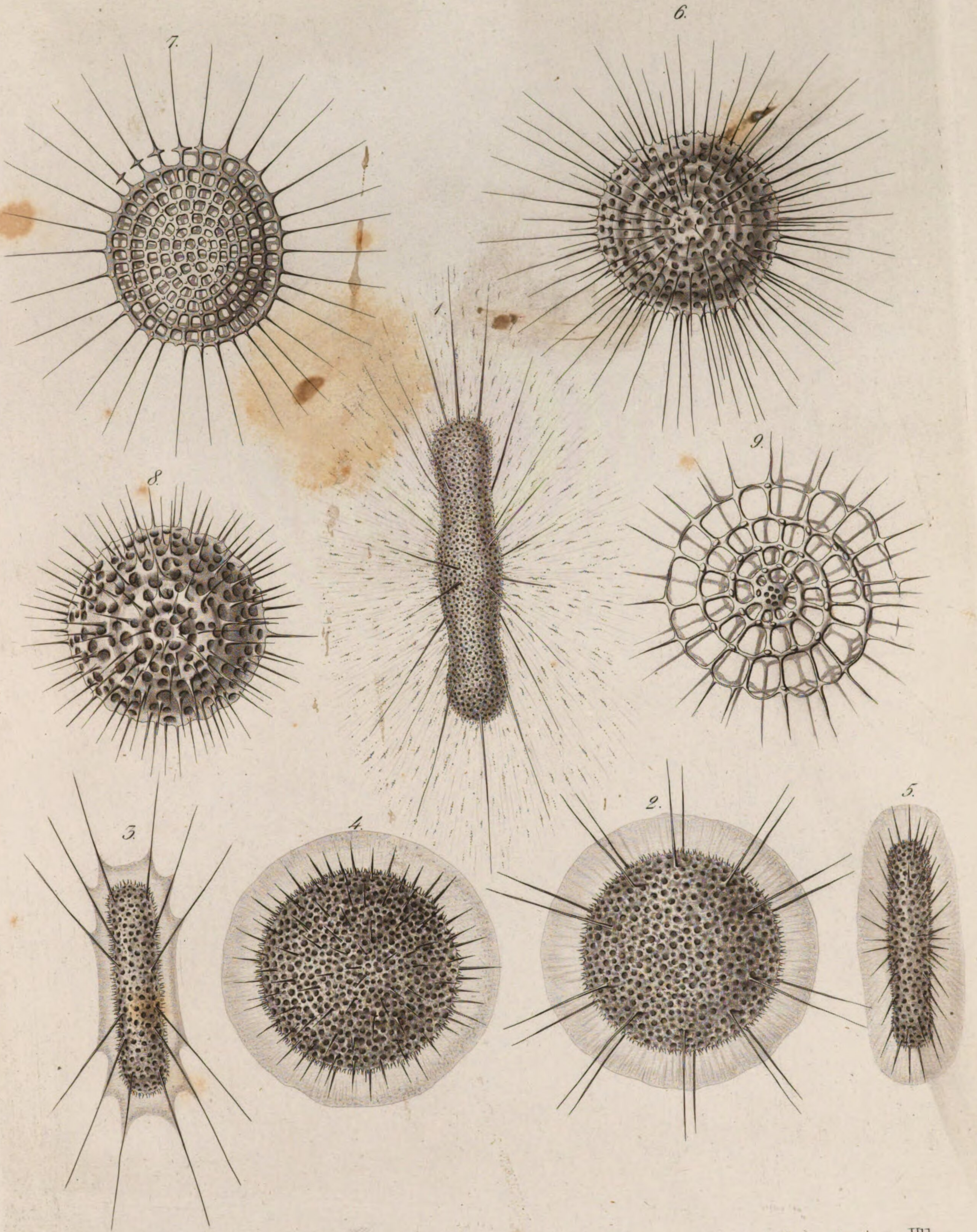
1-4. Haliomma. 1-3. H. Echinaster, Hkl. 4. H. Castanea, Hkl. 5-9. Actinomma.
 5. A. inerme, Hkl. 6-8. A. Trinacrium, Hkl. 9. A. drymodes, Hkl.



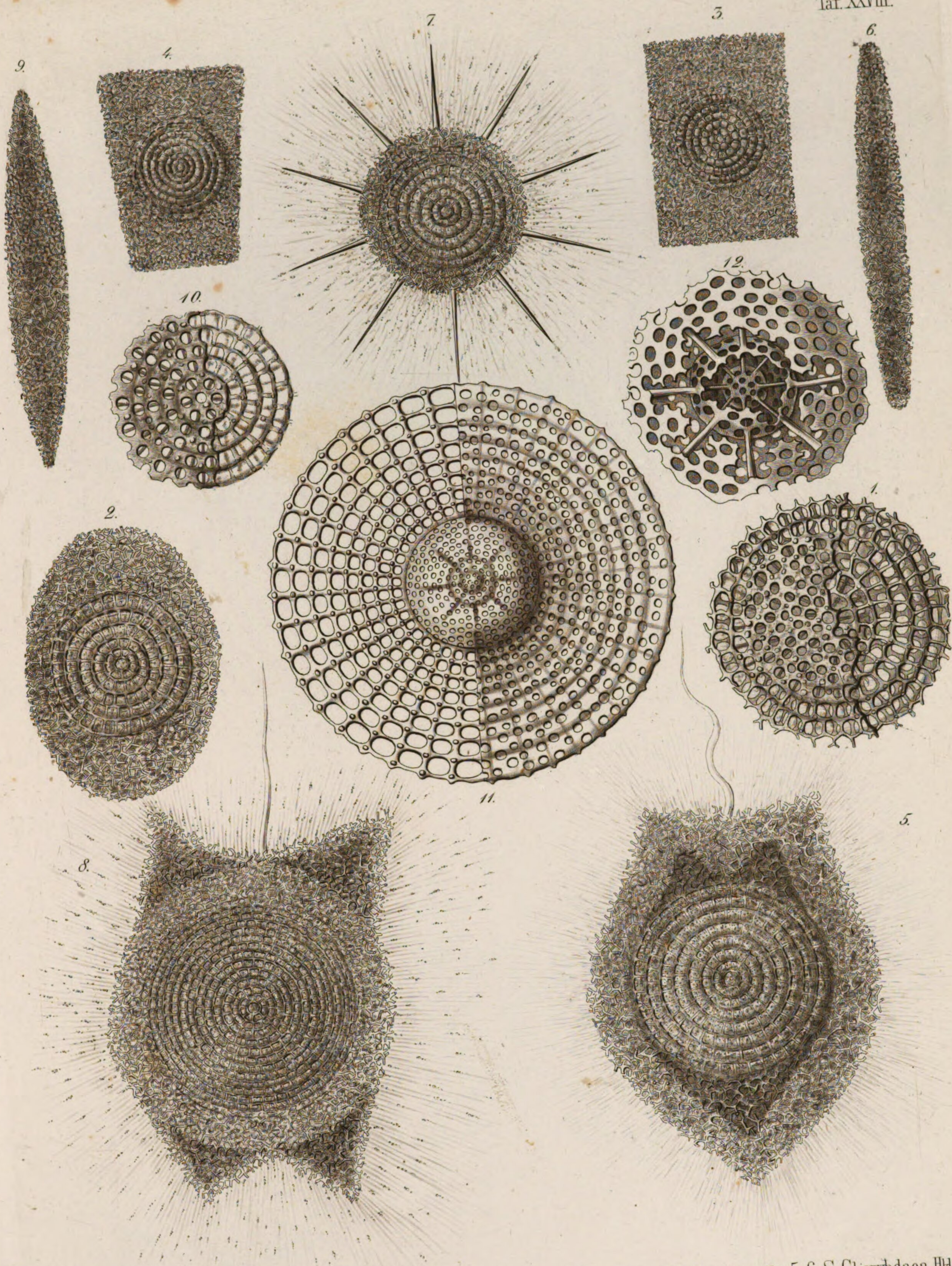
1-10. Rhizosphaera. 1-7 *R. trigonacantha*, Hkl. 8-10. *R. leptomita*, Hkl.



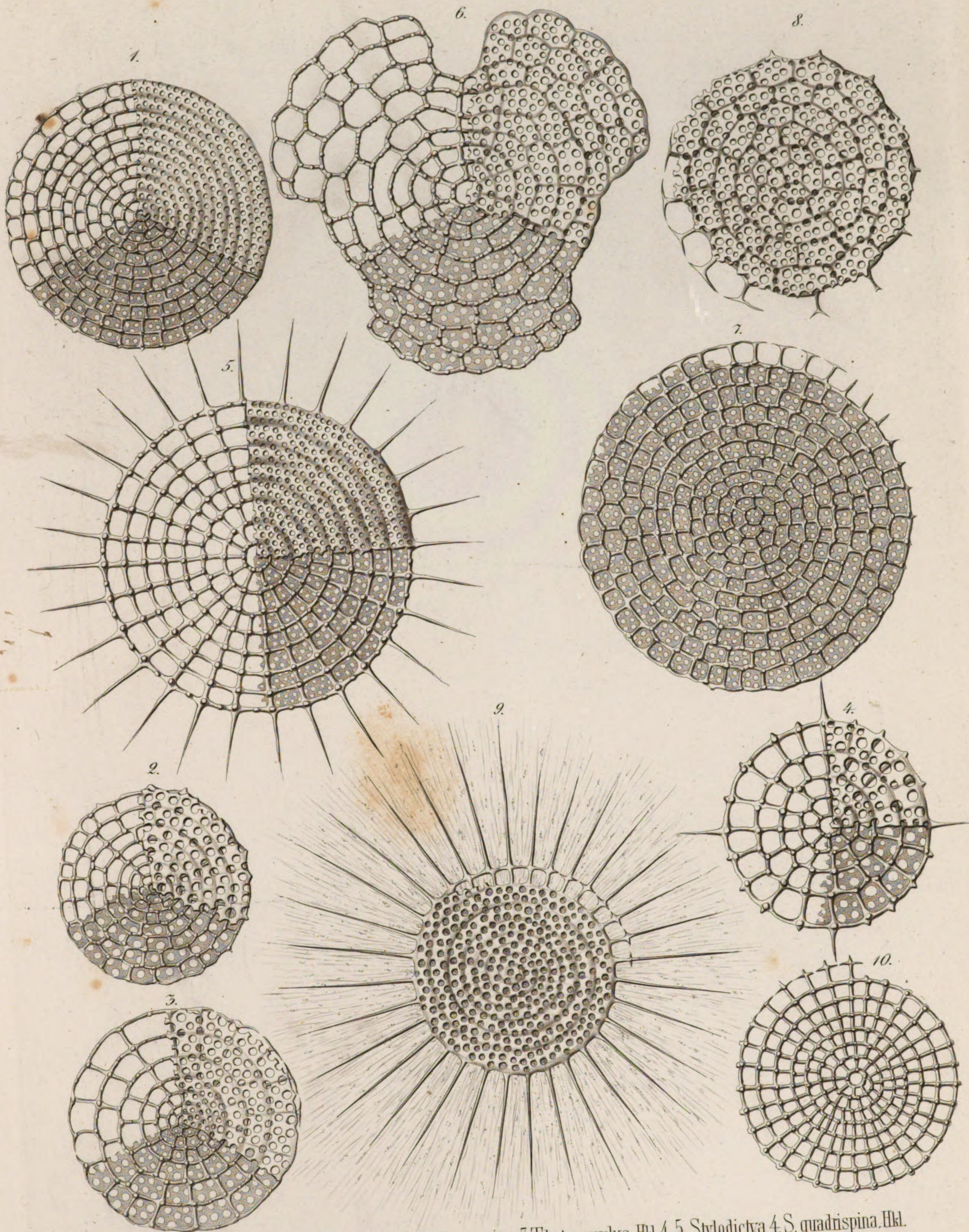
1-3. *Spongosphaera streptacantha*, Hkl. 4-6. *Dictyosoma trigonizon*, Hkl.



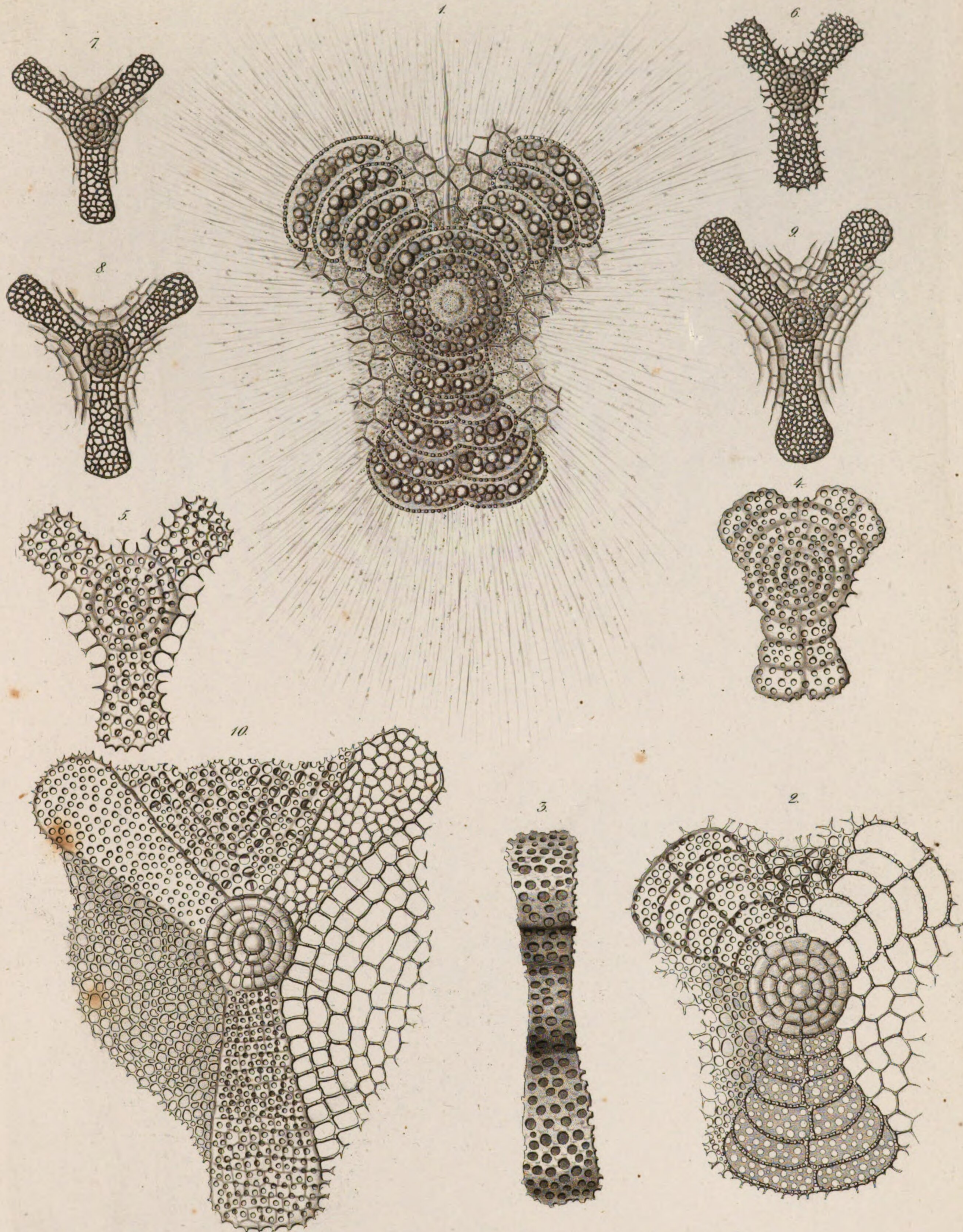
1. *Spongurus cylindricus*, Hkl. 2-5. *Spongotrochus*. 2. 3. *S. longispinus*, Hkl. 4. 5. *S. brevispinus*, Hkl.
6-9. *Lithelius*. 6. 7. *L. spiralis*, Hkl. 8. 9. *L. Alveolina*, Hkl.



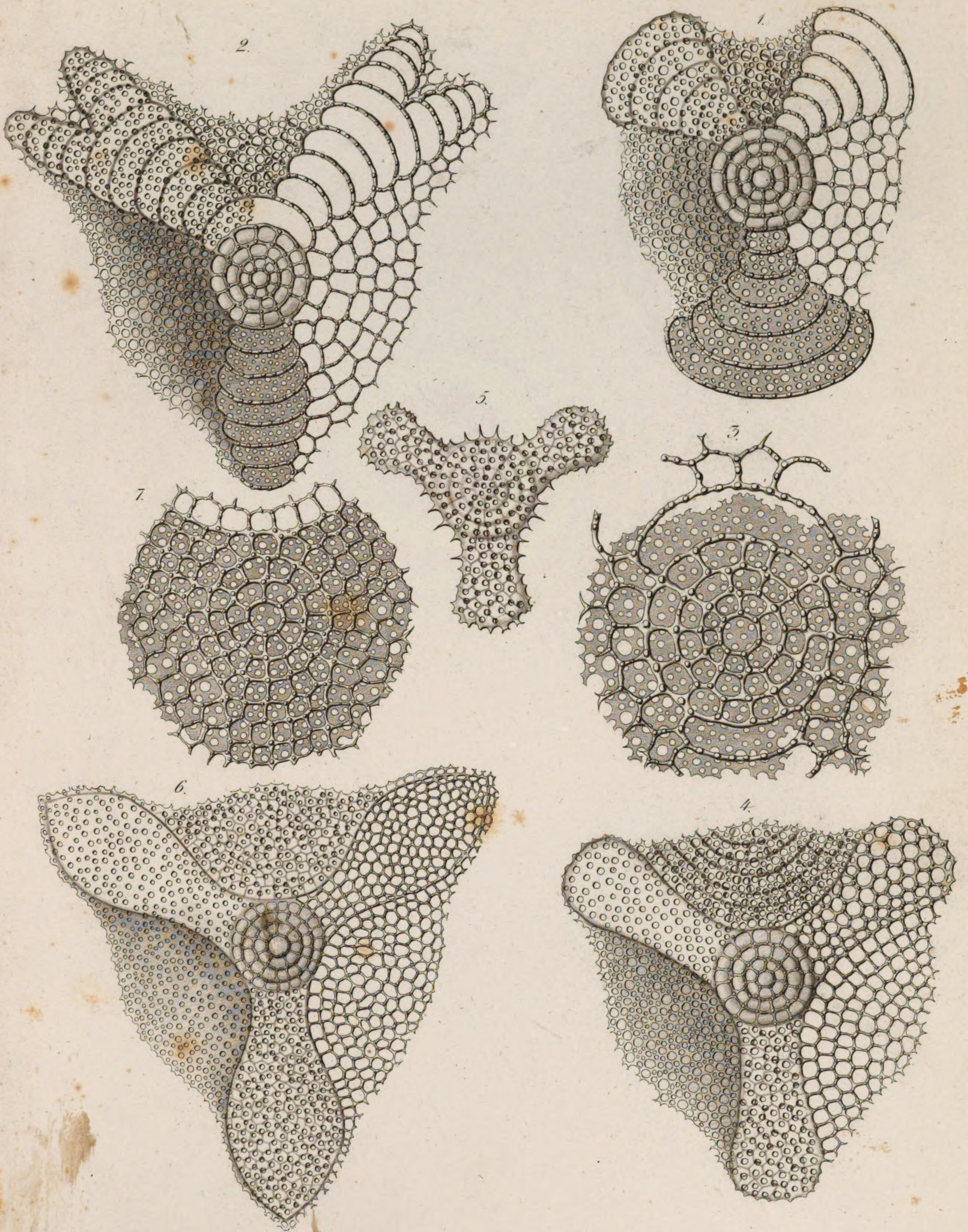
1-6. *Spongocyclia* 1. *S. cycloides*, Hkl. 2. *S. elliptica*, Hkl. 3. *S. orthogona*, Hkl. 4. *S. Scyllaea*, Hkl. 5. 6. *S. Charybdaea*, Hkl.
 7. *Stylospongia Huxleyi*, Hkl. 8-10. *Spongasteriscus quadricornis*, Hkl. 11. 12. *Coccodiscus Darwinii*, Hkl.



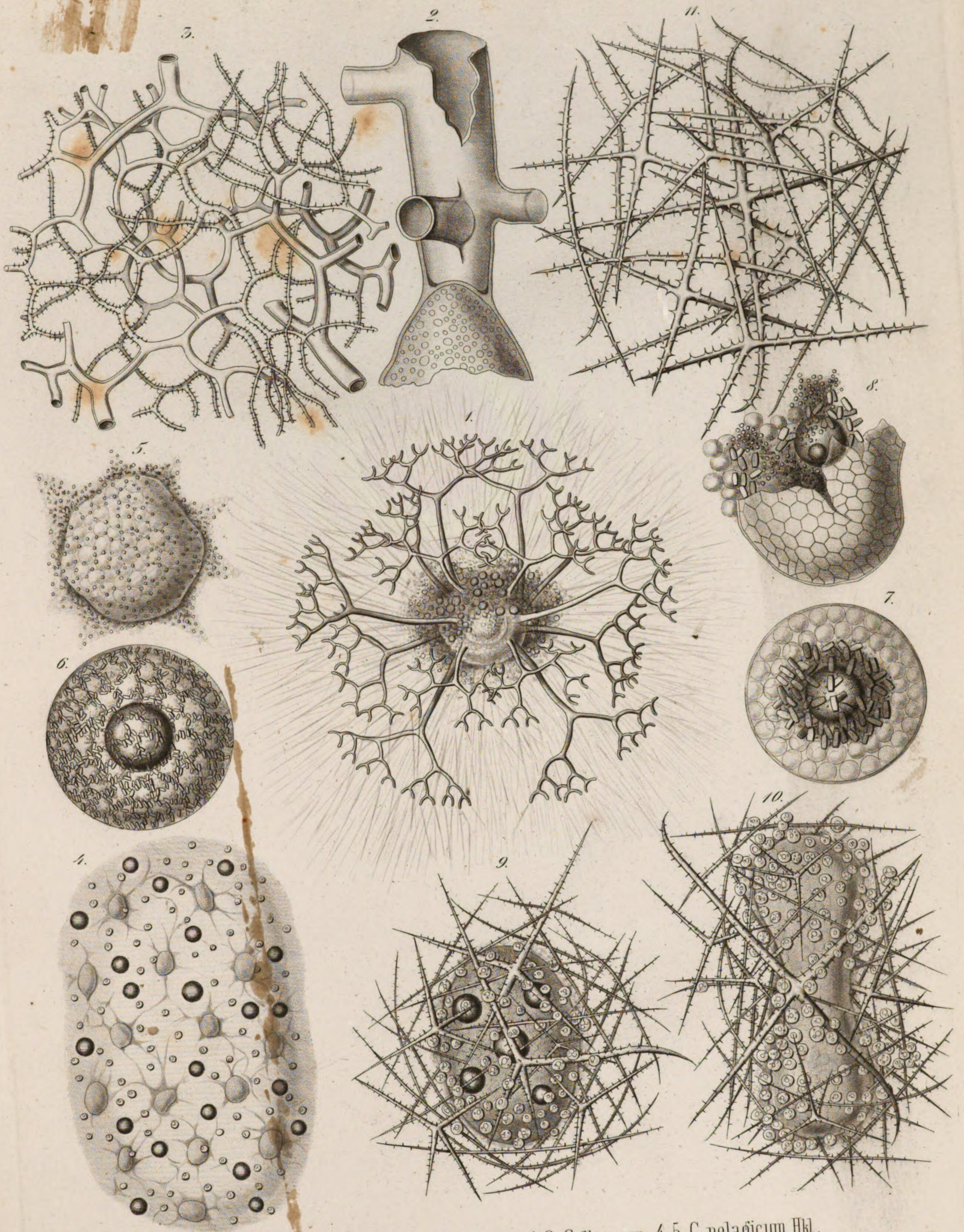
1-3. Trematodiscus. 1. *T. orbiculatus*, Hkl. 2. *T. Sorites*, Hkl. 3. *T. heterocyclus*, Hkl. 4. 5. *Stylodictya*. 4. *S. quadrispina*, Hkl. 5. *S. multispina*, Hkl. 6. *Rhopalastrum truncatum*, Hkl. 7. 8. *Discospira*. 7. *D. helicoides*, Hkl. 8. *D. Operculina*, Hkl. 9. 10. *Stylospira* Dujardin, i. Hkl.



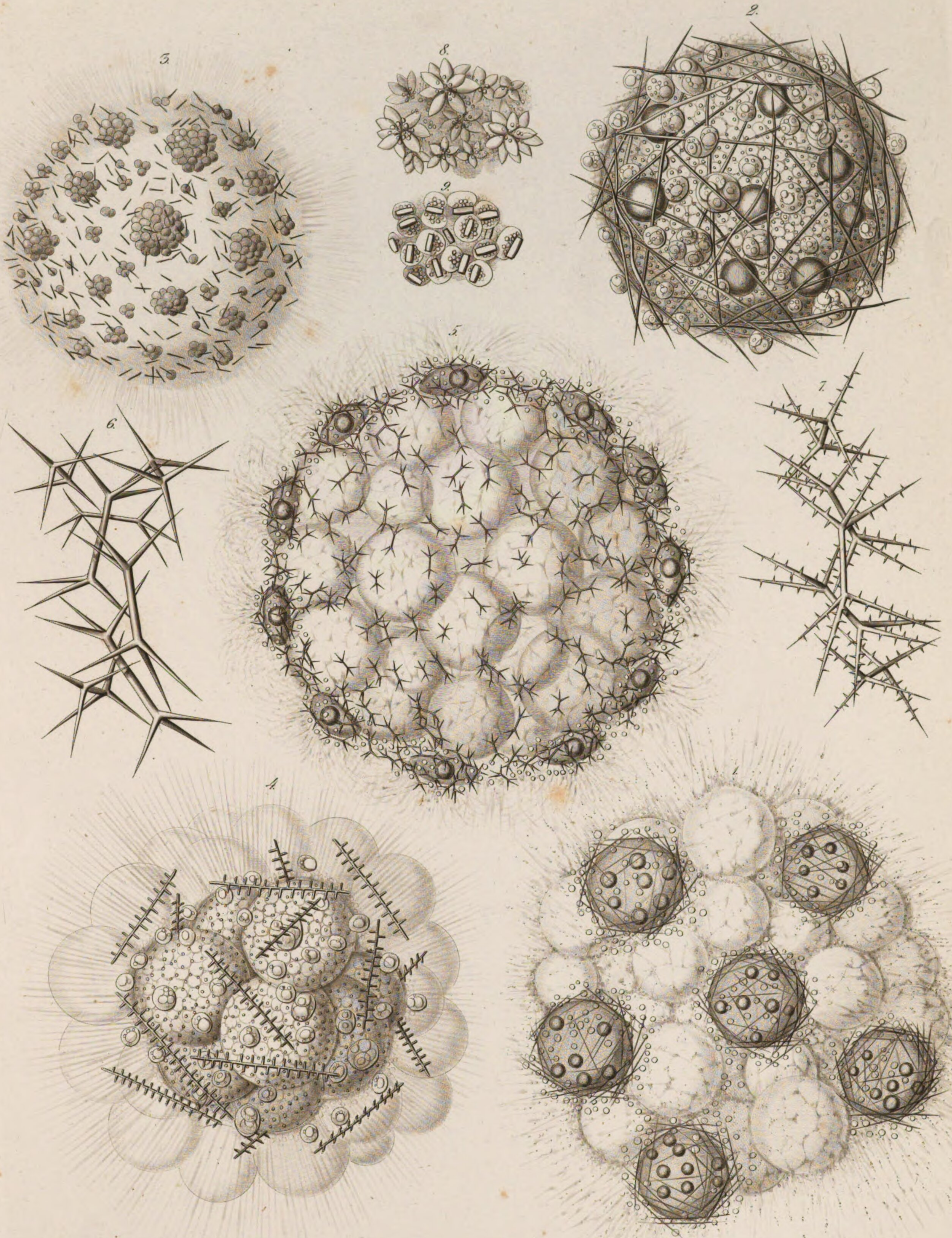
1-10. Euchitonia. 1-4. E. Virchowii, Hkl. 5-10. E. Mülleri, Hkl.



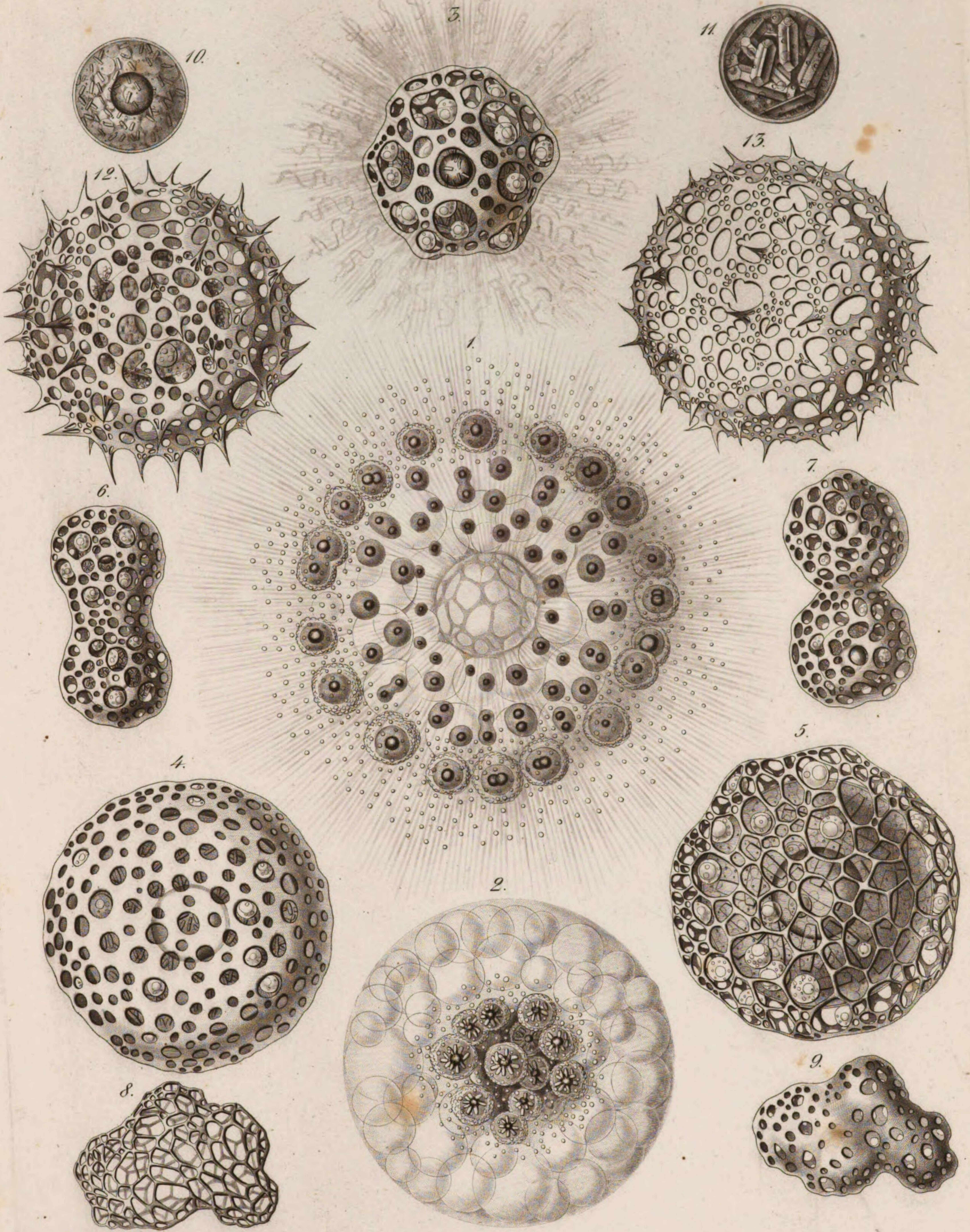
1-7. Euchitonia. 1. E. Beckmanni, Hkl. 2. 3. E. Gegenbaumi, Hkl.
4. 5. E. Leydigii, Hkl. 6. 7. E. Köllikeri, Hkl.



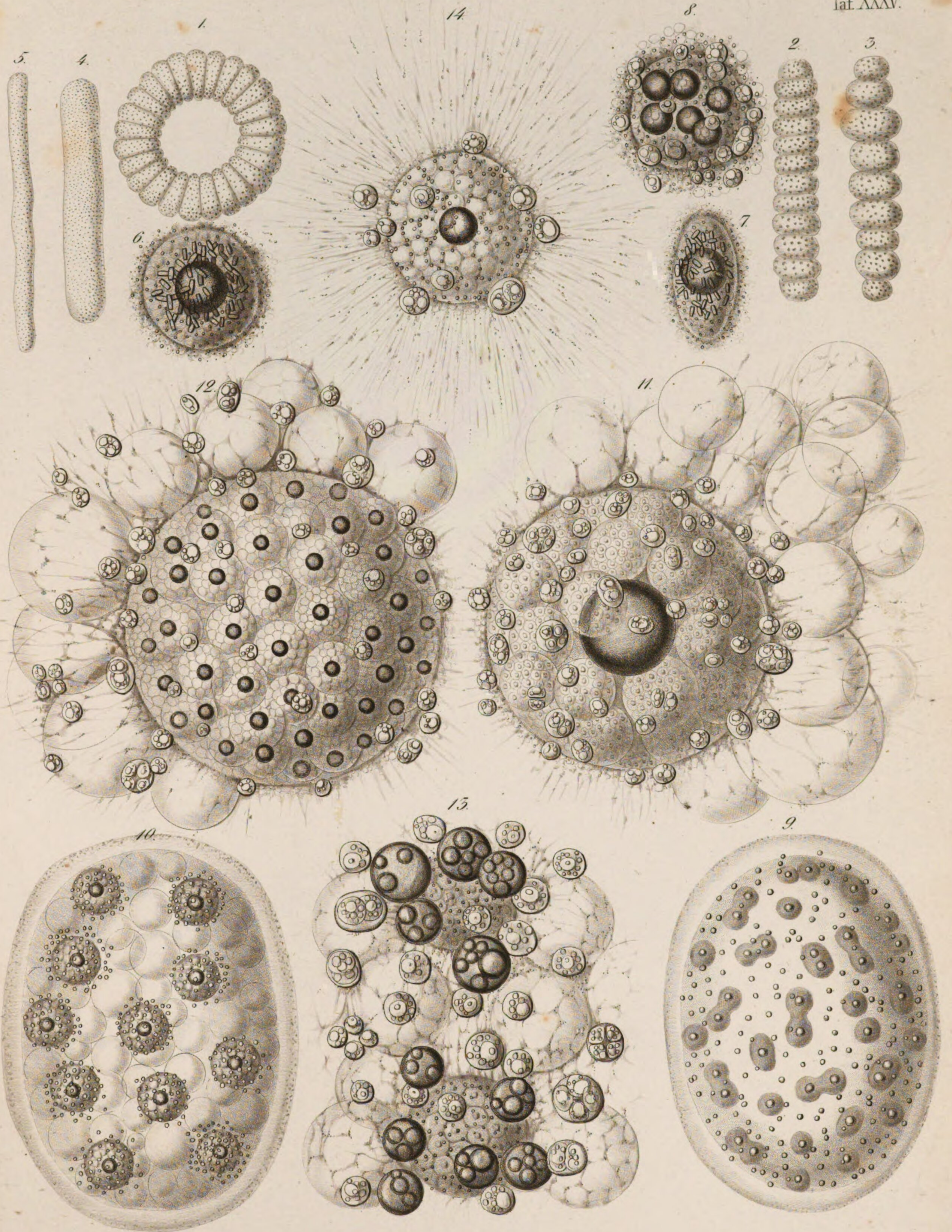
1-3. *Coelodendrum gracillimum*, Hkl. 4-8. *Collozoum*. 4 5. *C. pelagicum*, Hkl.
6-8. *C. coeruleum*, Hkl. 9-11. *Rhaphidozoum aciferum*, Hkl.



1-9. Sphaerozoum. 1. 2. *S. Italicum*, Hkl. 3. 4. *S. spinulosum*, Müller.
5-6. *S. Ovodimare*, Hkl. 7-9. *S. punctatum*, Müller.



1-13. Collosphaera. 1-11. C. Huxleyi, Müller. 12 13. C. spinosa, Hkd.



1-14. *Collozoum inerme*, Hbl.







Haeckel, Ernst,

Die Radiolarien (Rhizopoda Radiaria) eine Monographie

Bd.: [1. Theil]

Berlin 1862

2 Zool. 59 u-1,2

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